

Table III

Table III: Human telomerase reverse transcriptase (TERT) Hammerhead Ribozyme and Target Sequence

nt. Position	Ribozyme Sequence				Seq ID Nos.	Substrate Sequence	Seq ID Nos.
13	CGCAGCAG	CUGAUGAG	GCCGUUAAGG	CGAA AGCAGCAG	2730	CGCUGGCGU C CUGCUGCG	1
68	GCCAGCGGG	CUGAUGAG	GCCGUUAAGG	CGAA AGCAGCAG	2731	CGCUGGCGU C CCGGCGUG	2
90	GCCAGCAGG	CUGAUGAG	GCCGUUAAGG	CGAA AGCAGCAG	2732	CGUGGCGU C CCGGCGUG	3
108	CCUGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AGUGGCGG	2733	CAGGCCACU A CCGGCGAG	4
135	GCCGCGAAG	CUGAUGAG	GCCGUUAAGG	CGAA AGUGGCGG	2734	GCGCCAGGU U CGUGGCGG	5
138	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2735	GCGCAGGU C CGUGGCGG	6
194	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2736	CGCGGCGU U CGUGGCGG	7
195	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2737	CGCGGCGU U CGUGGCGG	8
196	AGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2738	CGCGGCGU C CGUGGCGG	9
264	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2739	CGCGGCGU C CGUGGCGG	10
267	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2740	CGCGGCGU U CGUGGCGG	11
268	AGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2741	CGCGGCGU C CGUGGCGG	12
279	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2742	CGCGGCGU C CGUGGCGG	13
350	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2743	CGCGGCGU U CGUGGCGG	14
351	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2744	CGCGGCGU C CGUGGCGG	15
352	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2745	CGCGGCGU U CGUGGCGG	16
353	AGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2746	CGCGGCGU C CGUGGCGG	17
399	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2747	CGCGGCGU U CGUGGCGG	18
400	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2748	CGCGGCGU C CGUGGCGG	19
420	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2749	CGCGGCGU A CGUGGCGG	20
505	AGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2750	CGCGGCGU U CGUGGCGG	21
506	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2751	CGCGGCGU C CGUGGCGG	22
529	AGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2752	CGCGGCGU C CGUGGCGG	23
530	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2753	CGCGGCGU U CGUGGCGG	24
531	AGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2754	CGCGGCGU U CGUGGCGG	25
540	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2755	CGCGGCGU C CGUGGCGG	26
558	AGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2756	CGCGGCGU A CGUGGCGG	27
580	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2757	CGCGGCGU A CGUGGCGG	28
582	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2758	CGCGGCGU C CGUGGCGG	29
600	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2759	CGCGGCGU C CGUGGCGG	30
626	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2760	CGCGGCGU A CGUGGCGG	31
644	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2761	CGCGGCGU C CGUGGCGG	32
671	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2762	CGCGGCGU A CGUGGCGG	33
676	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2763	CGCGGCGU C CGUGGCGG	34
691	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2764	CGCGGCGU C CGUGGCGG	35
749	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2765	CGCGGCGU C CGUGGCGG	36
756	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2766	CGCGGCGU U CGUGGCGG	37
803	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2767	CGCGGCGU U CGUGGCGG	38
819	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2768	CGCGGCGU C CGUGGCGG	39
863	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2769	CGCGGCGU U CGUGGCGG	40
864	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2770	CGCGGCGU U CGUGGCGG	41
865	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2771	CGCGGCGU C CGUGGCGG	42
876	CGCGGCGG	CUGAUGAG	GCCGUUAAGG	CGAA AAGGCGG	2772	CGCGGCGU C CGUGGCGG	43

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906	CCUCCAAA CUGAUGAG GCGGUUAGGC CGAA AGGUGGCU	2823	AGCCACCU C UUUGGAGG	44
908	ACCCUCCA CUGAUGAG GCGGUUAGGC CGAA AGAGGUGG	2824	CCACCCUC U UGAGGGGU	45
909	CACCCUCC CUGAUGAG GCGGUUAGGC CGAA AAGAGGUG	2825	CACCCUCU U GGAAGGUG	46
922	GUCCACGA CUGAUGAG GCGGUUAGGC CGAA AGCGACCC	2826	GGUGGUCU C UCUGGAC	47
924	GGUGGCCA CUGAUGAG GCGGUUAGGC CGAA AGAGCGCA	2827	UGGCGUCU C UGCGACGC	48
939	AUGGGUGG CUGAUGAG GCGGUUAGGC CGAA AGUGGCGC	2828	GGCGCACU C CCAACCAU	49
943	GGGCCACG CUGAUGAG GCGGUUAGGC CGAA AUGGGUGG	2829	CCACCCAU C CGUGGCGC	50
931	GGGAUGUG CUGAUGAG GCGGUUAGGC CGAA AUGGGGCG	2830	CGCGCCAU C CACAUCCG	51
937	GUGGCGGC CUGAUGAG GCGGUUAGGC CGAA AUGUGGAG	2831	AUCCACAU C CGCGCCAC	52
1001	GUCCACA G CUGAUGAG GCGGUUAGGC CGAA AGGUGGUG	2832	CACCAAGU C CUGGGAG	53
1016	GGGGGAG CUGAUGAG GCGGUUAGGC CGAA AGGCGGUG	2833	ACACCGCU U GUCCCGGG	54
1019	CACCGGAG CUGAUGAG GCGGUUAGGC CGAA ACAAGGAG	2834	CGCGGUGU C CGCGGGUG	55
1025	GUCCGAG CUGAUGAG GCGGUUAGGC CGAA ACACCGGG	2835	CGCGGUGU A CGCGGAG	56
1047	AGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGCGGUG	2836	GAAGCA U CUGGAGU	57
1048	GAGGAGAG CUGAUGAG GCGGUUAGGC CGAA AAGGCGUG	2837	AAACAGU C CUGGAGU	58
1051	GAGGAGAG CUGAUGAG GCGGUUAGGC CGAA AAGGCGUG	2838	CACCGUCU C CACCGUG	59
1052	UGAGGAG CUGAUGAG GCGGUUAGGC CGAA AGAGGAG	2839	CGCGGUGU A CGCGGAG	60
1056	GGCGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2840	CGCGGAGU C CGGAGG	61
1059	UGCGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2841	CGCGGAGU C AGGAGAG	62
1064	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGCGGUG	2842	GGCGGUCU C CUGGAGU	63
1069	UGAGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2843	GGCGGUCU U CUGGAGU	64
109	UGAGGAG CUGAUGAG GCGGUUAGGC CGAA AAGGAGAG	2844	CGCGGUGU C CUGGAGU	65
1092	GAAGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2845	UGCGGAGU A CUGGAGU	66
1096	AGAGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2846	UGCGGAGU C AGGAGAG	67
1101	GGCGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2847	ACCGAGUC C CUGGAGG	68
1102	GGCGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2848	UGAGGUCU C UGAGGCGC	69
111	GAAGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2849	UGCGGUCU C GAGGAG	70
1129	GGCGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2850	GGGAGGUC C GUGGAG	71
1147	CCGAGAAA CUGAUGAG GCGGUUAGGC CGAA AUGGCGUG	2851	GAGAGAU C CUGGAGG	72
1149	AAACAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2852	GACCAUCU U CUGGAGG	73
1150	GAAACAG CUGAUGAG GCGGUUAGGC CGAA AAGAGAG	2853	ACCAUCU U CUGGAGG	74
1151	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA AAGAGAG	2854	CGAGGUGU C UGAGGAG	75
1159	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA AAGAGAG	2855	UGCGGAGU U CAGGAGG	76
1158	AGGAGAG CUGAUGAG GCGGUUAGGC CGAA AAGAGAG	2856	UGCGGAGU C CAGGAGG	77
1161	CGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2857	CAGGAGUC C CGGAGG	78
1191	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2858	CGGAGGUC U CGGAGG	79
121	UGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2859	CGGAGGUC A CUGGAGG	80
1234	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA ACAGGAG	2860	GGGAGGUC U CUGGAGG	81
1234	AGGAGAG CUGAUGAG GCGGUUAGGC CGAA ACAGGAG	2861	GGGAGGUC U CUGGAGG	82
1234	GAAGGAG CUGAUGAG GCGGUUAGGC CGAA AAGAGAG	2862	CGGAGGUC C GAGGAGG	83
1246	UGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2863	GAGGAGUC U GAGGAGG	84
1269	GAAGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2864	GGGAGGUC A GAGGAGG	85
1279	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2865	GGGAGGUC C GAGGAGG	86
1282	CGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2866	GGGAGGUC C AGGAGG	87
1310	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2867	GGGAGGUC C AGGAGG	88
1330	GGGAGAG CUGAUGAG GCGGUUAGGC CGAA ACAGGAG	2868	GGGAGGUC C UGAGGAG	89
1356	CCGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGAG	2869	CGGAGGUC C UGAGGAG	90

1394	CACCAAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ACGGGGGU	2870	ACCCCCGU	C	GCCUGGUG	91
1411	UGGUGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGCUG	2871	CAGGUGGU	C	CGCCAGCA	92
1440	CGAAGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ACACGUGC	2872	GCAAGGUG	A	CGGCUJCG	93
1446	CGCGGCAAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCCGUAC	2873	GUAAGGCU	T	CGUGCGGG	94
1447	GCGCGCAAG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCGUA	2874	UAAGGCUU	C	GUGCGGGC	95
1486	GAGCGGCA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCGUG	2875	CGAAGGCU	C	UGGGGGUC	96
1494	UGGCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCGAG	2876	CGGGGGCU	C	CAGGCA	97
1515	UGGUGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCGGU	2877	ACCGGGCU	T	CCUGAGGA	98
1516	UGGUGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCGGG	2878	CGCGGGCU	C	CUGAGGAA	99
1519	UGGUGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	AGAAAGGG	2879	CGGUGGCU	C	AGGAAGAC	100
1536	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGGUG	2880	CGAAGAGU	T	CAUGGCGC	101
1537	AGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGGUG	2881	AAAGAGGU	C	AGGUGGCU	102
1540	CGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2882	AAAGUGAU	C	UGGUGGCG	103
1542	UGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGAG	2883	GGGAGGCU	C	CGGAGGGA	104
1564	UGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGGUG	2884	CGGAGGCU	C	UGGUGGGA	105
1566	CGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2885	CGGAGGCU	C	CGGAGGAG	106
1510	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2886	AGGAGGCU	T	GGGAGGCG	107
1633	AGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2887	CGGAGGCU	T	GGGAGGCG	108
1642	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2888	GGGAGGCU	T	GGGAGGCG	109
1642	UGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2889	GGGAGGCU	C	GGGAGGCG	110
1661	CGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2890	AGGAGGCU	C	UGGAGGAG	111
1675	UGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2891	AGGAGGCU	C	UGGAGGAG	112
1686	AGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2892	GGGAGGCU	T	GGGAGGCG	113
1687	CGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2893	GGGAGGCU	C	UGGAGGAG	114
1710	CGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2894	AGGAGGCU	A	CGGAGGCG	115
1714	AGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2895	GGGAGGCU	C	GGGAGGCG	116
1717	AGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2896	UAAGGCUU	C	GAAGGCGU	117
1726	AAAGAGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2897	AGGAGGCU	C	AGGAGGUG	118
1731	AAAAAGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2898	GGGAGGCU	C	UGGAGGAG	119
1733	AGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2899	GGGAGGCU	T	GGGAGGCG	120
1734	CGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2900	CGGAGGCU	T	CGGAGGAG	121
1735	AGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2901	AGGAGGCU	C	GGGAGGCG	122
1737	UGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2902	GGGAGGCU	T	GGGAGGCG	123
1738	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2903	GGGAGGCU	T	GGGAGGCG	124
1739	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2904	GGGAGGCU	T	GGGAGGCG	125
1740	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2905	GGGAGGCU	A	GGGAGGCG	126
1744	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2906	GGGAGGCU	C	GGGAGGCG	127
1758	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2907	GGGAGGCU	T	GGGAGGCG	128
1759	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2908	AGGAGGCU	T	GGGAGGCG	129
1760	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	2909	GGGAGGCU	C	GGGAGGCG	130
1774	GGGAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGG					

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1795	UUGUCCCA	CUGAUGAG	GCCGUUA33C	CGAA	ACACUCUJ	2917	AAGAGUGU	C	UGGAGCAA	138
1806	UGCUUUGC	CUGAUGA3	GCCGUUA33C	CGAA	ACUUGCUC	2918	GAGCAAGU	J	GCAAAGCA	139
1816	CUGAUUCC	CUGAUGA3	GCCGUUA33C	CGAA	AUGUUUUG	2919	CAAAAGCAU	J	GGAUUCAG	140
1822	UGCUUGUC	CUGAUGAG	GCCGUUA33C	CGAA	AUUCCAAU	2920	AUUGGAU	C	AGACAGCA	141
1823	CCUUCUUC	CUGAUGAG	GCCGUUA33C	CGAA	AGUCUUCU	2921	ACAGCACU	J	GAAGAGGG	142
1860	CUGUUUCC	CUGAUGA3	GCCGUUA33C	CGAA	ACAGCUUC	2922	GGAGCUGU	C	GGAAGCAG	143
1873	UGCUUCUC	CUGAUGA3	GCCGUUA33C	CGAA	ACUUCUUC	2923	GCAAGAGU	C	A3GCAGCA	144
1883	GGCUUCUC	CUGAUGA3	GCCGUUA33C	CGAA	AUGUCUUC	2924	GGUAGCAU	C	G3GAAGCC	145
1911	GGAGUCUC	CUGAUGAG	GCCGUUA33C	CGAA	ACGUCACU	2925	GUUAGAGU	C	CAGACUUC	146
1918	AUGAAGUC	CUGAUGAG	GCCGUUA33C	CGAA	AGUUCGCA	2926	GUCAAGAU	C	CGUUCUACU	147
1923	UGG33AUG	CUGAUGAG	GCCGUUA33C	CGAA	AGCGGAGU	2927	AUUCUGCU	J	CAUUCGCA	148
1924	UUG33GAG	CUGAUGA3	GCCGUUA33C	CGAA	AA3CGGAG	2928	GUUGGUGU	C	AUUCGCAA	149
1927	GGCUUGAG	CUGAUGAG	GCCGUUA33C	CGAA	AUGAAGG3	2929	GUUUUACU	C	GUCAAGCC	150
1954	AUGUUCUC	CUGAUGAG	GCCGUUA33C	CGAA	AUUGGUG3	2930	GUUGGAGU	J	GUUAGCAU	151
1968	GCACGAG3	CUGAUGAG	GCCGUUA33C	CGAA	AUGUUCAG	2931	CAUGGAGU	A	GUUGGUGG	152
1972	GUUCGAG3	CUGAUGAG	GCCGUUA33C	CGAA	ACUAGAGU	2932	GAUAGAGU	C	GUUGGAGC	153
1989	GUUGGAG3	CUGAUGAG	GCCGUUA33C	CGAA	ACGUUCUG	2933	GAUAGAGU	J	GUUGGAGG	154
1990	UCUUCG33	CUGAUGA3	GCCGUUA33C	CGAA	AAUGUUCU	2934	AUAGGAGU	C	GUUGGAGG	155
2015	CGAGGUGA	CUGAUGAG	GCCGUUA33C	CGAA	ACUUCUGG	2935	CGAGGAGU	C	GUUGGUGG	156
2017	GUUGGAGU	CUGAUGAG	GCCGUUA33C	CGAA	AGAGGUGU	2936	GAUGGAGU	C	ACUUCGAG	157
2022	GCACGUG3	CUGAUGAG	GCCGUUA33C	CGAA	AGUUGAGG	2937	GUUGGAGU	C	GAUGGUGG	158
2040	GCACGUG3	CUGAUGAG	GCCGUUA33C	CGAA	ACAGGUGU	2938	GCACGUGU	J	CAUGGUGU	159
2041	AGCAGGUG	CUGAUGAG	GCCGUUA33C	CGAA	AAAGGUGU	2939	GCACGUGU	C	AGUGGUGU	160
2050	GUUGGAGU	CUGAUGAG	GCCGUUA33C	CGAA	AGCAGGUG	2940	AGUGGUGU	C	AAUAGGAG	161
2055	GUUGGUGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUUGAGC	2941	GUUGGAGU	A	CAUGGUGG	162
2080	GUUGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGUGG	2942	GUUGGAGU	C	GUUGGUGG	163
2091	GCAGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGUGC	2943	GUUGGAGU	C	GUUGGUGG	164
2111	GUUGGUGG	CUGAUGAG	GCCGUUA33C	CGAA	AUUGGUGG	2944	GUUGGAGU	A	GUUGGAGG	165
2113	GUUGGUGG	CUGAUGAG	GCCGUUA33C	CGAA	AUUGGUGC	2945	GAUGGAGU	C	CAUGGAGG	166
2132	GCAGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGUGC	2946	GUUGGAGU	J	GUUGGUGG	167
2134	GCAGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AAUGGUGG	2947	GUUGGAGU	C	GUUGGUGG	168
2175	UGAAGAGG	CUGAUGAG	GCCGUUA33C	CGAA	ACAGGUGG	2948	GUUGGAGU	A	GUUGGUGG	169
2178	GUUGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGCAGGAG	2949	GUUGGAGU	J	GUUGGAGG	170
2179	AGUUGGAG	CUGAUGAG	GCCGUUA33C	CGAA	AGUAGGAG	2950	GUUGGAGU	J	GUUGGAGG	171
2180	GUUGGAGU	CUGAUGAG	GCCGUUA33C	CGAA	ACAGGAGG	2951	GUUGGAGU	C	AAUGGAGG	172
2205	GUUGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGUGC	2952	GUUGGAGU	A	CAUGGAGG	173
2215	GUUGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AUUGGUGC	2953	GAUGGAGU	C	GUUGGAGG	174
2230	AGUUGGAG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGUGC	2954	GAUGGAGU	C	ACAGGAGG	175
2239	GUUGGAGU	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGUGG	2955	AGUGGAGU	C	AGUGGAGG	176
2242	AUUGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGAGGUGC	2956	GAUGGAGU	C	GUUGGAGU	177
2251	GUUGGAGU	CUGAUGAG	GCCGUUA33C	CGAA	AUUGGUGG	2957	GUUGGAGU	C	AUAGGAGG	178
2254	GUUGGAGU	CUGAUGAG	GCCGUUA33C	CGAA	AUAGGUGU	2958	AGAGGAGU	C	AAAGGAGG	179
2271	GCAGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGUGC	2959	GAAGGAGU	A	GUUGGUGG	180
2282	GCAGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGAGC	2960	GUUGGAGU	C	GUUGGAGG	181
2286	GCAGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGAGC	2961	GUUGGAGU	A	GUUGGUGG	182
2295	GUUGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGAGG	2962	GUUGGAGU	C	CAAGGAGG	183
2320	GUUGGAGG	CUGAUGAG	GCCGUUA33C	CGAA	AGUGGAGG	2963	GUUGGAGU	C	CAAGGAGG	184



Table III

2331	GGCUCUUG CUGAUGAG GCGGUUAGGC CGAA AGGOCUUG	2964	CAAGGOCU U CAAGAGCC	185
2332	UGGCUCUJ CUGAU3AG GCGGUUAG3C CGAA AAGGOCUJ	2965	AAGGOCUJ C AAGA3CCA	186
2344	AAGGUAGA CUGAU3AG GCGGUUAG3C CGAA A33UG3CU	2966	A33CAG3U C UCJAGCUU	187
2346	UCAAG3UA CUGAU3AG GCGGUUAG3C CGAA A3AG3UG3	2967	CGA3GU3U C UAGCUUGA	188
2348	UG3UAAG3 CUGAU3AG GCGGUUAG3C CGAA A3AGAGCU	2968	A3GU3CU A CCUJGACA	189
2352	GG3UC3UJ CUGAU3AG GCGGUUAG3C CGAA A33UAGAG	2969	C3CUAG3U J GACAGACC	190
2362	UAG333U3 CUGAU3AG GCGGUUAG3C CGAA A33U3U3U	2970	ACAGAG3U C CAGGOCUGA	191
2370	GU3G3AU3 CUGAU3AG GCGGUUAG3C CGAA A33G3UG3	2971	CGA3333U A CAUG3GAC	192
2382	GAG33AG3 CUGAU3AG GCGGUUAG3C CGAA A3UG3UC3	2972	G3GACAGU J CGUG33UC	193
2383	UGAG33AC CUGAU3AG GCGGUUAG3C CGAA AA3UG3	2973	CGAGAG3U C GU333UCA	194
2390	CUG3AG3U CUGAU3AG GCGGUUAG3C CGAA A333AC3A	2974	UG3U333U C AC3UG3AG	195
2425	UG3AU3AG CUGAU3AG GCGGUUAG3C CGAA A3333AU3	2975	3AU3333U C GU3AU3GA	196
2428	UG3U33AU CUGAU3AG GCGGUUAG3C CGAA A33AG33U	2976	G333333U C AU3AG3GA	197
2429	CU3UG3UJ CUGAU3AG GCGGUUAG3C CGAA AU3AG3AG	2977	3U3333AU C GAG3AGAG	198
2442	UGAG33AG CUGAU3AG GCGGUUAG3C CGAA A333333U	2978	3CAGAG3U C CU3333GA	199
2445	CAUJ3AG3 CUGAU3AG GCGGUUAG3C CGAA A33AG3UC	2979	3AG3333U C CCUGAA3UG	200
2470	AG3U33AA CUGAU3AG GCGGUUAG3C CGAA A3333AGU	2980	A3U3333U C UUGAG3GU	201
2472	AGAG3UG3 CUGAU3AG GCGGUUAG3C CGAA A3AG333CA	2981	UG33333U U CGAG333U	202
2473	AA3AG3UJ CUGAU3AG GCGGUUAG3C CGAA AA3AG33U	2982	G333333U C GAG3333U	203
2479	CGUAG3AA CUGAU3AG GCGGUUAG3C CGAA A33UG3AA	2983	UU3AG33U C UJ3333AG	204
2481	A3333AG3 CUGAU3AG GCGGUUAG3C CGAA A3AG33UG	2984	CGAG333U U CUUAG33U	205
2482	AA3333AG CUGAU3AG GCGGUUAG3C CGAA AA3AG3UG	2985	GA33333U C CUAG333U	206
2485	AUG3AA33 CUGAU3AG GCGGUUAG3C CGAA A33AA3AG	2986	3U33333U A CG3333AU	207
2490	G33AG3UG CUGAU3AG GCGGUUAG3C CGAA A3333UAG	2987	CUUAG33U J CAG3333C	208
2491	UG333AGU CUGAU3AG GCGGUUAG3C CGAA AA333UAG	2988	CUAG333U C AUG333CA	209
2515	UJ33333U CUGAU3AG GCGGUUAG3C CGAA AUG333AG	2989	GU33333U C AG3333AA	210
2526	G3AG3UG3 CUGAU3AG GCGGUUAG3C CGAA A33UG33C	2990	G3333AA3U C CUAG333C	211
2529	AUG33AG3 CUGAU3AG GCGGUUAG3C CGAA A33AG3UG	2991	CAA3333U A CG3333AG	212
2533	UG333AGU CUGAU3AG GCGGUUAG3C CGAA A33UAG3A	2992	UG3UAG3U C CAG333CA	213
2543	CU3UG33U CUGAU3AG GCGGUUAG3C CGAA AU33333U	2993	CA33333U C CG33333G	214
2554	A3AG3AGU CUGAU3AG GCGGUUAG3C CGAA A333333C	2994	G3AG3333U C CAU3333U	215
2563	3U33AG3A CUGAU3AG GCGGUUAG3C CGAA AUG33AG3C	2995	G333333U C CU3333AG	216
2566	A333333A CUGAU3AG GCGGUUAG3C CGAA A33AG33A	2996	UG3U333U C U333333U	217
2568	CGAG333U CUGAU3AG GCGGUUAG3C CGAA A3AG3AGU	2997	CAU3333U C CAG3333C	218
2574	A33333CA CUGAU3AG GCGGUUAG3C CGAA A33AG33U	2998	AG33333U C U333333U	219
2592	UG33333C CUGAU3AG GCGGUUAG3C CGAA A33AG33	2999	CU33333U A CG3333CA	220
2616	UG33333CA CUGAU3AG GCGGUUAG3C CGAA A33AG33U	3000	CAA3333U U U33333GA	221
2617	AUG3333C CUGAU3AG GCGGUUAG3C CGAA AA3AG33U	3001	AA33333U U G33333AU	222
2626	UG33333C CUGAU3AG GCGGUUAG3C CGAA AUG3333C	3002	G333333U U CG33333A	223
2627	GU33333C CUGAU3AG GCGGUUAG3C CGAA AAUG333C	3003	CG33333U C G33333AG	224
2644	AAA3333C CUGAU3AG GCGGUUAG3C CGAA A33AG33C	3004	G333333U C CU33333U	225
2651	AUG3333CA CUGAU3AG GCGGUUAG3C CGAA A33AG33A	3005	UG33333U J U33333AG	226
2653	CAU3333C CUGAU3AG GCGGUUAG3C CGAA AA3333AG	3006	CG33333U J G33333AG	227
2663	CAAG333A CUGAU3AG GCGGUUAG3C CGAA AUGAG33CA	3007	UG3AG33U J U33333UG	228
2664	CGAAG33A CUGAU3AG GCGGUUAG3C CGAA AAUG333C	3008	GAUG333U J CU33333G	229
2665	ACCAAG3A CUGAU3AG GCGGUUAG3C CGAA AAUG333C	3009	GAUG333U C UUG3333U	230
2667	UCAAG33A CUGAU3AG GCGGUUAG3C CGAA A3AAAG3A	3010	UGAG333U U GUUG333A	231

Table III

2670	GUGUCACC	CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGAAA	3011	UUUCUUGU	U	GGUGACAC	232
2681	GGUGAGGU	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGUCA	3012	UGACACCU	C	ACCUCACC	233
2686	GCGUGGGU	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGAGG	3013	CCUACACU	C	ACCCACGC	234
2703	UCCUGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGUUG	3014	GAAAAACU	U	CCUCAGGA	235
2704	GUCUCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGUUFU	3015	AAAAACCU	C	UCAGGAC	236
2707	AGGGUCCU	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAAGU	3016	ACCUUCCU	C	AGGACCCU	237
2719	ACACCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAGGU	3017	ACCUUGU	C	CGAGGUGU	238
2728	UACUCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACACCUUG	3018	CGAGGUGU	C	CCUGAGUA	239
2736	CGCAGCCA	CUGAUGAG	GCCGUUAGGC	CGAA	ACUCAGGG	3019	CCUGAGGU	A	UGGUGUGG	240
2754	UCUUCGGC	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCACC	3020	GGUAAACU	U	GGGGAAGA	241
2775	CUACAGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCACC	3021	GGUAAACU	U	CCUGUAG	242
2777	UCUACAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGAAC	3022	GUAAACU	C	CCUGUAGA	243
2780	UCGUCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	AUAGGAA	3023	UUUCCUGU	A	GAAGACGA	244
2810	CUUAAUAA	CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGUGC	3024	GAUAGGU	U	UGUUGACG	245
2817	UCUGAACA	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGUG	3025	CAUAGGU	U	UGUUGAGA	246
2817	AUUCUAAU	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGCGU	3026	AGGCGGU	U	GUUGAGAU	247
2819	GGCAUUGG	CUGAUGAG	GCCGUUAGGC	CGAA	AUAAAGGC	3027	GUUUGGU	U	CAUUGGUC	248
2819	CGGCAUUG	CUGAUGAG	GCCGUUAGGC	CGAA	AAUAAAGG	3028	GUUUGGU	C	AGUUGGUG	249
2836	CAAGGGAA	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGUG	3029	CAAGGGU	A	UUGGCGUG	250
2838	ACUAGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AUAGGCGG	3030	CGGCGUAG	U	CCCGUGGU	251
2838	CAUAGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AAUAGGCG	3031	GGGCGUAG	C	CCCGUGUG	252
2864	GGUUGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AUUGAGGA	3032	UGGUGGAU	A	CCCGGACG	253
2890	AGUUGGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGGUG	3033	GAUUGGAC	A	UUGGAGGU	254
2895	CAUAGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGGUG	3034	CGAGUAGU	C	CAAGUAGG	255
2901	UUGGCGGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGGAG	3035	GUUGGAGU	A	UUGGCGGA	256
2912	CUUUGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGGUG	3036	CGGGAACU	C	CAUAGAG	257
2917	CUUGGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGAGU	3037	AUUGGAGU	C	AGAGGACG	258
2927	GAAGGUGA	CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGUGC	3038	GAAGGAGU	C	UACCGUUG	259
2928	UUGAAGGU	CUGAUGAG	GCCGUUAGGC	CGAA	AGACUGGC	3039	GGGAGGU	C	ACCUUGAA	260
2934	CGGCGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGAGA	3040	GUUGGAGU	U	CAACCGGG	261
2935	CGGCGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGUGG	3041	GUUGGAGU	C	AAAGGCGG	262
2946	CAUUGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGCG	3042	CGGCGGUG	U	GAAGGUGG	263
2947	CGAGGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGCGG	3043	CGGCGGUG	C	AAAGGUGG	264
2964	GAUUGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	ACCGAGGU	3044	ACUUGGUG	C	GGAAACUG	265
2977	ACCGGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGGCG	3045	CGGAAACU	C	UUGGCGGU	266
2979	AGAGGACA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUUGG	3046	GAAGGAGU	U	UGGCGGUG	267
2981	AAAGGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGUUG	3047	AAAGGAGU	U	GGGCGGUG	268
2986	AGGCGGAA	CUGAUGAG	GCCGUUAGGC	CGAA	ACCGGAAA	3048	GUUGGCGU	C	UUGGCGGU	269
2986	UAGGCGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGACA	3049	GGGCGGUG	U	GGGCGUGA	270
3000	CAAGGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	ACAGGUGA	3050	CGAGGUGU	C	ACAGGUGG	271
3010	AAUUGGGA	CUGAUGAG	GCCGUUAGGC	CGAA	ACAGGUGG	3051	CAAGGUGU	U	UUGGGAUU	272
3013	AAAGGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGCGU	3052	AGGCGGU	U	CGGGAUUU	273
3014	CAAAAGGA	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGCGC	3053	GGGCGGUU	C	GGGGAUUU	274
3020	CAAGGCGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGAA	3054	UUGGCGAU	U	GGGCGUG	275
3022	UCAGGUGC	CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGGGA	3055	UUGGGAUU	U	GAAGGUGA	276
3037	ACGUGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGUU	3056	AACAGGCU	C	CAAGGUGU	277
3058	AUCUUGUA	CUGAUGAG	GCCGUUAGGC	CGAA	AUCUUGGU	3057	ACCAACAU	C	UACAGGAU	278

Table III

3060	GGAUUUG CUGAUGAG GCGUUAAGG CGAA AGAUGUUG	3058	CAACAUCU A CAAGAUGC	279
3067	AGCAGGAG CUGAUGAG GCGUUAAGG CGAA AUUUGUA	3059	UACAAGAU C CUUUGCU	280
3070	UGCAGCAG CUGAUGAG GCGUUAAGG CGAA AGAUCUJ	3060	AAGAUCU C CUUUGCA	281
3084	GAAACUG CUGAUGAG GCGUUAAGG CGAA AGCUGC	3061	GCAGGCGU A CAGGUUUC	282
3090	AUGCGUGA CUGAUGAG GCGUUAAGG CGAA ACCUGUAC	3062	GACAGGU U UACGCAU	283
3091	CAGCGUG CUGAUGAG GCGUUAAGG CGAA AAUUGUA	3063	UACAGGU U CACGCAU	284
3092	ACAGCGU CUGAUGAG GCGUUAAGG CGAA AAAUGUJ	3064	ACAGGUU C ACUGAUU	285
3112	UGAAAGG CUGAUGAG GCGUUAAGG CGAA AGCUGCA	3065	CUUGAGU C CCAUUGA	286
3117	GCUGAGU CUGAUGAG GCGUUAAGG CGAA AUUGGAG	3066	GUUGCAU U UCAUGAG	287
3118	UGUGAGU CUGAUGAG GCGUUAAGG CGAA AAUGGAG	3067	CUUGCAU U CAUGAG	288
3119	UGUGAGU CUGAUGAG GCGUUAAGG CGAA AAUGGAG	3068	UGUGAUU C AUGAGAA	289
3122	AAUGUGU CUGAUGAG GCGUUAAGG CGAA AUGAAGU	3069	CAUUGAU C AGAAGUJ	290
3130	UUGUGUA CUGAUGAG GCGUUAAGG CGAA AUGUGUG	3070	CAGCAAGU U UGAAAGAA	291
3131	GUUGUGU CUGAUGAG GCGUUAAGG CGAA AAUGUGU	3071	AGCAAGU U GAAAGAA	292
3147	GCAGGAA CUGAUGAG GCGUUAAGG CGAA AUGUGG	3072	GUUGCAU U UUGUGG	293
3148	CGAAGAA CUGAUGAG GCGUUAAGG CGAA AUGUGG	3073	CGAAGAU U UUGUGG	294
3149	CGAAGAA CUGAUGAG GCGUUAAGG CGAA AAUGUGG	3074	CGAAGAU U UUGUGG	295
3150	CGAAGAA CUGAUGAG GCGUUAAGG CGAA AAAAGUG	3075	CAGAGU U UUGUGG	296
3151	ACAGGAG CUGAUGAG GCGUUAAGG CGAA AAAAGUG	3076	ACAGGUU C UUGUGG	297
3160	UGAGAGU CUGAUGAG GCGUUAAGG CGAA AGGAGG	3077	UUGUGG C AUGUGA	298
3162	GUUGAGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3078	CGUGCAU C UUGAGG	299
3165	CGUGAGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3079	CGUGAUU C UGAGG	300
3177	AGCAAGG CUGAUGAG GCGUUAAGG CGAA AGGAGG	3080	CAGGAGU C CUUGGU	301
3181	GAGUAGU CUGAUGAG GCGUUAAGG CGAA AGGAGG	3081	GUUGGU C UGAGG	302
3186	GAGUAGG CUGAUGAG GCGUUAAGG CGAA AGGAGG	3082	GUUGGU A CUUGGU	303
3189	UGAGAGG CUGAUGAG GCGUUAAGG CGAA AGUAGG	3083	GUUGGU C AUGAGG	304
3193	GUUGAGG CUGAUGAG GCGUUAAGG CGAA AUGAGG	3084	UAGGUU C AUGAGG	305
3219	CGUGAGG CUGAUGAG GCGUUAAGG CGAA AUGAGG	3085	AGGAGGU C GUUGGG	306
3248	GAGAGG CUGAUGAG GCGUUAAGG CGAA AGGAGG	3086	CGUGGU C UGUGGU	307
3255	CGUGGU CUGAUGAG GCGUUAAGG CGAA AGGAGG	3087	GUUGGU C AGAGG	308
3288	UGAGG CUGAUGAG GCGUUAAGG CGAA AUGUGG	3088	CGAAGAU U CUUGGU	309
3289	UGAGG CUGAUGAG GCGUUAAGG CGAA AUGUGG	3089	CAGGCAU C CUUGGU	310
3295	GUAGGU CUGAUGAG GCGUUAAGG CGAA AGGAGG	3090	UUGGU C AUGAGG	311
3305	AGGUGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3091	AGGUGU C GAGG	312
3316	AGGUGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3092	CAGGGU C AUGAGG	313
3321	GUUGAG CUGAUGAG GCGUUAAGG CGAA AUGAGG	3093	UGAGGU A GUUGAG	314
3331	GAGGAG CUGAUGAG GCGUUAAGG CGAA AUGAGG	3094	GUUGGU C GUUGGG	315
3339	GUUGAGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3095	GUUGGG C AUGAGG	316
3343	GUUGGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3096	GUUGGU C AUGAGG	317
3368	GAUGGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3097	AGGUGU C GAGG	318
3376	GUUGGG CUGAUGAG GCGUUAAGG CGAA AUGUGG	3098	GGAGGU C CGGGG	319
3429	CGAAGGU CUGAUGAG GCGUUAAGG CGAA AGGAGG	3099	AGGUGU C AGAGG	320
3435	UGGUGU CUGAUGAG GCGUUAAGG CGAA AUGUGG	3100	GUAGGU U CAGAGG	321
3436	AGGUGU CUGAUGAG GCGUUAAGG CGAA AUGUGG	3101	UGAGGU C AUGAGG	322
3446	CAUGGU CUGAUGAG GCGUUAAGG CGAA AUGUGU	3102	AAAGGU C CUAGG	323
3503	CGUGGU CUGAUGAG GCGUUAAGG CGAA AUGAGG	3103	AGGUGU C AGGGG	324
3514	GAGAGU CUGAUGAG GCGUUAAGG CGAA AGGGG	3104	GGGGU C UAGG	325

Table III

3516	CUGGGAAG CUGAUGAG GCGGUUAGGC CGAA AAGAGCCG	3105	CGGGCUTU A CGUCCAG	326
3520	CUCGCGAG CUGAUGAG GCGGUUAGGC CGAA ACGUAGAG	3106	CUCUACGU C CCAGGGAG	327
3568	AGGCGUCA CUGAUGAG GCGGUUAGGC CGAA ACGGCCAG	3107	CUGGGAGU C UGAGGGCCU	328
3587	CUCGGGCA CUGAUGAG GCGGUUAGGC CGAA AACACUCA	3108	GUGAGUGU U UGGGCGAG	329
3588	CCGCGGC CUGAUGAG GCGGUUAGGC CGAA AACACUCA	3109	UGAGUGUU U GCGCGAGG	330
3606	UUCAGGCG CUGAUGAG GCGGUUAGGC CGAA ACAUGGAG	3110	CUGCAUGU C CCGCUGAA	331
3625	CUCAGGCG CUGAUGAG GCGGUUAGGC CGAA ACAUGGAG	3111	CUGAUGUGU C CCGCUGAG	332
3648	CUCGCGCG CUGAUGAG GCGGUUAGGC CGAA ACAUGGAG	3112	GUGAUGUGU C CAGGCAAG	333
3667	GUGGCGCG CUGAUGAG GCGGUUAGGC CGAA ACAUGGAG	3113	CUGAUGUGU C CAGGCAAG	334
3682	GAAAGUAA CUGAUGAG GCGGUUAGGC CGAA ACGGCGAG	3114	CUGGCGGU C UUGACUUC	335
3685	GCGGAAUG CUGAUGAG GCGGUUAGGC CGAA ACGGCGAG	3115	UUGCGUGU U CACUUCGC	336
3686	GCGGAAUG CUGAUGAG GCGGUUAGGC CGAA ACGGCGAG	3116	GUGGCGGU C AUUUGCCG	337
3690	CUGGCGCG CUGAUGAG GCGGUUAGGC CGAA AGUGAAAG	3117	UUGUGUGU U CCGGAGAG	338
3691	CUGGCGCG CUGAUGAG GCGGUUAGGC CGAA AGUGAAAG	3118	CUGGAGUU C CCGGAGAG	339
3708	GUGGAGUG CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3119	CUGGCGGU C GCGGCGAG	340
3712	CUGGCGCG CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3120	GUGGCGGU C CAGGCGAG	341
3720	GUGGAGAA CUGAUGAG GCGGUUAGGC CGAA AGGUGGAG	3121	GUGGAGGU U UUGGCGAG	342
3721	GUGGAGAA CUGAUGAG GCGGUUAGGC CGAA AGGUGGAG	3122	GUGGAGGU U UUGGCGAG	343
3727	UGGUGAGG CUGAUGAG GCGGUUAGGC CGAA AAAAGGUG	3123	CAGGCGGU U CUGGCGAG	344
3733	CUGGCGCG CUGAUGAG GCGGUUAGGC CGAA AAAAGGUG	3124	CAGGCGGU C CUGGCGAG	345
3736	CUGGCGCG CUGAUGAG GCGGUUAGGC CGAA AGGAGGAG	3125	CUGGCGGU C AGGAGGAG	346
3750	GUGGAGUG CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3126	GUGGCGGU U CAGGCGAG	347
3757	GUGGAGUG CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3127	CUGGCGGU C CAGGCGAG	348
3758	UAGGUGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3128	CUGGCGGU C CAGGCGAG	349
3766	AUGGAGUG CUGAUGAG GCGGUUAGGC CGAA AUGGCGAG	3129	CUGGCGGU A GAGGAGAG	350
3770	GAGGAGAG CUGAUGAG GCGGUUAGGC CGAA AUGGCGAG	3130	AUGGAGAU A GUGGAGAG	351
3775	UGGUGAGG CUGAUGAG GCGGUUAGGC CGAA AUGGAGAG	3131	GAGGAGAG C CAGGCGAG	352
3779	AAGGCGGG CUGAUGAG GCGGUUAGGC CGAA AUGGAGAG	3132	UAGGCGGU C CCGGAGAG	353
3787	CAAGGCGG CUGAUGAG GCGGUUAGGC CGAA AUGGCGAG	3133	CUGGAGAU U CCGGAGAG	354
3788	CAAGGCGG CUGAUGAG GCGGUUAGGC CGAA AUGGCGAG	3134	CUGGAGAU C CCGGAGAG	355
3794	GUGGAGAG CUGAUGAG GCGGUUAGGC CGAA AUGGAGAG	3135	CUGGCGAU U GUGGAGAG	356
3797	GAGGCGGG CUGAUGAG GCGGUUAGGC CGAA ACAAGGAG	3136	GUGGAGUG U CAGGCGAG	357
3798	GAGGCGGG CUGAUGAG GCGGUUAGGC CGAA ACAAGGAG	3137	CAGGAGGU C AGGCGGAG	358
3805	GUGGAGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3138	UAGGCGGU C GCGGCGAG	359
3816	AGGAGGAG CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3139	CUGGCGGU C UUGGCGAG	360
3820	GAGGAGGA CUGAUGAG GCGGUUAGGC CGAA AGGAGGAG	3140	GUGGCGGU U UGGGCGAG	361
3829	UGGAGGAG CUGAUGAG GCGGUUAGGC CGAA AGGAGGAG	3141	CUGGCGGU U GCGGCGAG	362
3829	GUGGCGGG CUGAUGAG GCGGUUAGGC CGAA AGGAGGAG	3142	CUGGCGGU U CAGGCGAG	363
3829	UGGCGGGG CUGAUGAG GCGGUUAGGC CGAA AGGAGGAG	3143	CUGGCGGU C CAGGCGAG	364
3839	UUGGAGGG CUGAUGAG GCGGUUAGGC CGAA AUGGCGAG	3144	CUGGCGAU C CAGGCGAG	365
3873	AAGGCGGA CUGAUGAG GCGGUUAGGC CGAA AGGCGGAG	3145	UGGAGGCU C UGGAGGAG	366
3881	UAGGCGGA CUGAUGAG GCGGUUAGGC CGAA AUGGCGAG	3146	CUGGAGAU U UGGAGGAG	367
3883	GUGGCGGG CUGAUGAG GCGGUUAGGC CGAA AAGGCGAG	3147	CUGGAGAU U GAGGAGAG	368
3897	CUGGCGGG CUGAUGAG GCGGUUAGGC CGAA AAGGCGAG	3148	UGGCGGCU A CAGGCGAG	369
3940	CUGGAGGG CUGAUGAG GCGGUUAGGC CGAA ACGGCGAG	3149	AUGGCGGU C CUGGCGAG	370
3950	CUGGAGUU CUGAUGAG GCGGUUAGGC CGAA ACGGCGAG	3150	CUGGCGGU C AAGGCGAG	371
3955	CUGGCGGG CUGAUGAG GCGGUUAGGC CGAA AUGGCGAG	3151	GUGGAGAU U GGGGCGAG	372

Table III

3977	CAGUAUUU	CUGAUGAG	GCCGUUAGGC	CGAA	ACUCCAC	3152	GUGGGAGU	A	AAAUACUG	373
3982	AUAUUCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AUUUACU	3153	AGUAAAAU	A	CUGAAUUAU	374
3989	AACUCAUA	CUGAUGAG	GCCGUUAGGC	CGAA	AUUCAGUA	3154	UACUGAAU	A	UAUGAGUU	375
3991	AAAACUCA	CUGAUGAG	GCCGUUAGGC	CGAA	AUAUUCAG	3155	CUGAAUUAU	A	UGAGUUUU	376
3997	AACUGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	ACUCAUUAU	3156	AUAUGAGU	U	UUUCAGUU	377
3998	AAACUGAA	CUGAUGAG	GCCGUUAGGC	CGAA	AACUCAUA	3157	UAUGAGUU	U	UUCAGUUU	378
3999	AAAACUGA	CUGAUGAG	GCCGUUAGGC	CGAA	AAACUCAU	3158	AUGAGUUU	U	UCAGUUUU	379
4000	CAAAACUG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAACUCA	3159	UGAGUUUU	U	CAGUUUUG	380
4001	UCAAACU	CUGAUGAG	GCCGUUAGGC	CGAA	AAAAACUC	3160	GAGUUUUU	C	AGUUUUGA	381
4005	UUUUUCAA	CUGAUGAG	GCCGUUAGGC	CGAA	ACUGAAAA	3161	UUUUCAGU	U	UGAAAAAA	382
4006	UUUUUUA	CUGAUGAG	GCCGUUAGGC	CGAA	AACUGAAA	3162	UUUCAGUU	U	UGAAAAAA	383
4007	UUUUUUUC	CUGAUGAG	GCCGUUAGGC	CGAA	AAACUGAA	3163	UUCAGUUU	U	GAAAAAAA	384

Stem Length = 8 . Core Sequence = CUGAUGAG GCCGUUAGGC CGAA

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp); Nakamura *et al.*, Science 277 (5328), 955-959 (1997)

Table IV

Table IV: Human telomerase reverse transcriptase (TERT) NCH Ribozyme and Target Sequence

nt. Position	Ribozyme Sequence					Seq ID Nos	Substrate Sequence					Seq ID Nos
14	GCGCAGCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICAGCAGC	385	GCUGCGUC	C	UGCUGCGC			3164
15	UGCGCAGC	CUGAU3AG	GCGGUUAGGC	CGAA	ICAGCAGC	386	CUGCGUCC	U	GCUGCGCA			3165
18	ACGU3CGC	CUGAU3AG	GCGGUUAGGC	CGAA	ICAGCAGC	387	CGUCUGUC	U	GCUCAGCU			3166
23	UUCCACAC	CUGAU3AG	GCGGUUAGGC	CGAA	ICAGCAGC	388	UGUCUGUC	A	CGUGGGA			3167
34	GGGGCCAC	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	389	UGGGGAAG	C	UGGGCCCC			3168
35	CGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	390	GGGAAGCC	C	UGGGCCCC			3169
36	CGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	391	GGAAACCC	U	GGGGCCCC			3170
40	GUGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	392	GGCCUGGC	C	CGGGCCCA			3171
41	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	393	CCUGGGCC	C	CGGGCCCA			3172
42	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	394	CCUGGGCC	C	CGGGCCCA			3173
44	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	395	GGCCUGGC	C	ACGGCCCA			3174
47	CGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	396	CCGGGGCC	A	CGGGCCCA			3175
49	AGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	397	CGGGCCCA	C	CGGGCCCA			3176
50	CAUGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	398	CGGGCCCA	C	CGGGCCCA			3177
51	GGACCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	399	GGGGCCCA	C	CGGGCCCA			3178
52	GGACCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	400	GGGGCCCA	C	CGGGCCCA			3179
60	GAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	401	GGGGCCCA	C	CGGGCCCA			3180
67	CAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	402	GGGGCCCA	U	CGGGCCCA			3181
69	GGACCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	403	GGGGCCCA	C	CGGGCCCA			3182
70	CGACCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	404	CGGGCCCA	C	CGGGCCCA			3183
71	CGACCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	405	CGGGCCCA	C	CGGGCCCA			3184
74	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	406	GGGGCCCA	U	CGGGCCCA			3185
77	CAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	407	CGGGCCCA	C	CGGGCCCA			3186
82	GAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	408	GGGGCCCA	C	CGGGCCCA			3187
89	CAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	409	CGGGCCCA	U	CGGGCCCA			3188
91	CGACCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	410	GGGGCCCA	C	CGGGCCCA			3189
92	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	411	GGGGCCCA	C	CGGGCCCA			3190
93	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	412	GGGGCCCA	U	CGGGCCCA			3191
96	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	413	GGGGCCCA	U	CGGGCCCA			3192
101	GAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	414	GGGGCCCA	A	CGGGCCCA			3193
104	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	415	GGGGCCCA	C	CGGGCCCA			3194
105	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	416	GGGGCCCA	A	CGGGCCCA			3195
107	CGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	417	GGGGCCCA	U	CGGGCCCA			3196
110	CAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	418	GGGGCCCA	C	CGGGCCCA			3197
120	CGAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	419	GGGGCCCA	U	CGGGCCCA			3198
123	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	420	GGGGCCCA	C	CGGGCCCA			3199
126	ACGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	421	GGGGCCCA	U	CGGGCCCA			3200
130	ACGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	422	GGGGCCCA	C	CGGGCCCA			3201
131	CAAGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	423	GGGGCCCA	A	CGGGCCCA			3202
146	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	424	GGGGCCCA	C	CGGGCCCA			3203
147	GGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	425	GGGGCCCA	U	CGGGCCCA			3204
153	AGGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	426	GGGGCCCA	C	CGGGCCCA			3205
154	CAGGCCCA	CUGAU3AG	GCGGUUAGGC	CGAA	ICUGCCCA	427	GGGGCCCA	C	CGGGCCCA			3206

Table IV

155	CCAGCCCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCCCA	428	UGGGGCCC	C	AGGGCUGG	3207
156	GCCAGCCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCCCC	429	GGGGCCCC	A	GGGCUGGC	3208
161	CAGCCGCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCUGGG	430	CCCCGGC	U	GGGCGCUG	3209
168	GCUGCACC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCCAAG	431	CUGGCGC	U	GGUGCAGC	3210
174	CCCCCGCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICACCAAG	432	CGUGGUGC	A	GGGGGGGG	3211
185	AGCCCGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCCGC	433	GGGGGGAC	C	GGGGGGGU	3212
186	AAGCCGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCCGC	434	GGGGGGAC	C	GGGGGGGU	3213
193	GGGGGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCGGG	435	CCGGCGGC	U	UUGCGCGC	3214
197	CAGCGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCGCG	436	CGCGGUUG	C	GGGGCGUG	3215
204	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCGCGG	437	CGCGCGGC	U	GGUGGGCC	3216
211	AAGCAUUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	438	CGGGUGGC	C	CAAGUGGU	3217
217	CAGCGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	439	GGGGUGGC	C	AGUGCGUG	3218
218	CAGCGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	440	GGGGUGGC	A	GGUGCGUG	3219
228	GACACACA	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	441	CCCCGUGC	C	UGGUGUGC	3220
229	CGACACAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	442	CCAGUGGC	U	GGUGUGGC	3221
231	CGUGCAAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	443	GGGGUGGC	C	UGGGAGAG	3222
235	GGGGGACA	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	444	UGGGUGGC	C	UGGGAGAG	3223
232	UGGGGCCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAG	445	GGGGUGGC	U	GGGAAGCA	3224
242	GGGGGCCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGACA	446	UGGGAGGC	A	GGGGGGCC	3225
246	GGGGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGAGC	447	CGAGCGGC	C	GGGGGGCC	3226
249	CGGGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	448	AGGGGGGC	C	CGGGGGCC	3227
250	GGGGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	449	GGGGGGGC	C	CGGGGGCC	3228
251	GGGGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	450	GGGGGGGC	C	CGGGGGCC	3229
252	GGGGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	451	GGGGGGGC	C	CGGGGGCC	3230
257	GGGGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	452	GGGGGGGC	C	GGGGGGCC	3231
258	AGGGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	453	GGGGGGGC	C	GGGGGGCC	3232
259	AAAGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	454	GGGGGGGC	C	GGGGGGCC	3233
260	GAAGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	455	GGGGGGGC	C	GGGGGGCC	3234
261	GGAAAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	456	GGGGGGGC	C	GGGGGGCC	3235
262	CGAAAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	457	GGGGGGGC	C	GGGGGGCC	3236
263	GGGAAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGGU	458	GGGGGGGC	U	GGGGGGCC	3237
265	UGGGGGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGGGC	459	GGGGGGGC	C	UGGGGGCA	3238
266	CGGGGGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGGGC	460	GGGGGGGC	U	UGGGGGCA	3239
269	CAGCGGAC	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGGGC	461	GGGGGGGC	C	GGAGGGGC	3240
270	GGACAGGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGAAG	462	GGGGGGGC	C	AGGGGGCC	3241
273	AGGACAGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGAAG	463	GGGGGGGC	A	GGGGGGCC	3242
277	UUGAGGCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGGU	464	CAGGGGUC	C	UGGGGAA	3243
281	CUUGAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGGU	465	AGGGGGUC	U	GGGGGAA	3244
284	CUUGAGCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGGA	466	UGGGGGGC	C	GGAAAGAG	3245
285	GGGGGGUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGAC	467	GUUGGGGC	U	GAAGGAGC	3246
294	GGGGGACC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGGGC	468	GAAGGAGC	U	GGGGGGCC	3247
302	AGGACUGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGAG	469	GGGGGGGC	C	GGAGGGGU	3248
303	CAGGACUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGGA	470	UGGGGGGC	C	AGGGGGGC	3249
310	GGGCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGGC	471	GGAGGGGC	U	GGAGGGGC	3250
312	AGGCGGUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGGU	472	AGGGGGGC	A	GGGGGGGU	3251
318	GGGCGGAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGUGGGC	473	GGAGGGGC	U	GGGGGGGC	3252
345	CGAAAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGUC	474	GAAGGGGC	U	GGGGGGGC	3253

Table IV

349	AAGCCGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGCAC	475	GUGCUGGC	C	UUCGGCUU	3254
350	GAAGCCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGCA	476	UGCUGGC	U	UCGGCUU	3255
356	CAGCGCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAAG	477	CCUUGGC	U	UCGGCUU	3256
363	CGUCGAGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAAAG	478	CUUGGC	U	GCUGGAG	3257
366	CCCCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	479	CGCUGGC	U	GGAGGGG	3258
376	CCCCCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	480	AGCGGC	C	CGCGGGG	3259
377	CCCCCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	481	AGCGGC	C	CGCGGGG	3260
386	CUUGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	482	CGCGGC	C	CGCGGGG	3261
387	CUUGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	483	CGCGGC	C	CGCGGGG	3262
388	GUUGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	484	CGCGGC	C	CGCGGGG	3263
389	GUUGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	485	CGCGGC	C	CGCGGGG	3264
390	AGGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	486	CGCGGC	C	CGCGGGG	3265
391	AAAGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	487	CGCGGC	C	CGCGGGG	3266
397	GUUGCGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	488	CGCGGC	C	CGCGGGG	3267
398	GUUGCGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	489	CGCGGC	C	CGCGGGG	3268
401	GUUGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	490	AGCGGC	A	CGCGGGG	3269
403	AGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	491	CGCGGC	C	CGCGGGG	3270
404	CAGCGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	492	CGCGGC	A	CGCGGGG	3271
406	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	493	CGCGGC	C	CGCGGGG	3272
407	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	494	CGCGGC	A	CGCGGGG	3273
416	CAAGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	495	CGCGGC	A	CGCGGGG	3274
419	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	496	CGCGGC	U	CGCGGGG	3275
420	GUUGCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	497	CGCGGC	C	CGCGGGG	3276
422	GUUGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	498	CGCGGC	U	CGCGGGG	3277
426	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	499	CGCGGC	C	CGCGGGG	3278
427	AGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	500	CGCGGC	C	CGCGGGG	3279
428	CAGCGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	501	CGCGGC	A	CGCGGGG	3280
431	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	502	CGCGGC	A	CGCGGGG	3281
439	AGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	503	CGCGGC	C	CGCGGGG	3282
445	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	504	CGCGGC	C	CGCGGGG	3283
447	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	505	CGCGGC	U	CGCGGGG	3284
471	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	506	CGCGGC	U	CGCGGGG	3285
474	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	507	CGCGGC	U	CGCGGGG	3286
477	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	508	CGCGGC	U	CGCGGGG	3287
482	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	509	CGCGGC	C	CGCGGGG	3288
501	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	510	CGCGGC	U	CGCGGGG	3289
507	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	511	CGCGGC	A	CGCGGGG	3290
509	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	512	CGCGGC	C	CGCGGGG	3291
510	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	513	CGCGGC	U	CGCGGGG	3292
513	AGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	514	CGCGGC	U	CGCGGGG	3293
517	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	515	CGCGGC	A	CGCGGGG	3294
521	AGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	516	CGCGGC	U	CGCGGGG	3295
523	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	517	CGCGGC	U	CGCGGGG	3296
530	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	518	CGCGGC	U	CGCGGGG	3297
537	AGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	519	CGCGGC	U	CGCGGGG	3298
544	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	520	CGCGGC	U	CGCGGGG	3299
546	CGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAG	521	CGCGGC	C	CGCGGGG	3300



Table IV

547	GCGCAGCU CUGAUGAG GCGGUUAGGC CGAA IGAGCCAC	522	GUGGCUCC C AGCUGCGC	3301
548	GCGGCAAC CUGAUGAG GCGGUUAGGC CGAA IGAGCCCA	523	UGGCUCC A GCGGCGC	3302
551	GUAGGCGC CUGAUGAG GCGGUUAGGC CGAA IGAGCGAG	524	CUCGCGC U GCGGCGC	3303
556	ACCGGUA CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	525	AGCUGCGC C UAGCGGU	3304
557	CACCGGUA CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	526	GCGGCGC U AGCGGU	3305
560	GACACCU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	527	GCGGCGC C AGCGGU	3306
561	GCGACCU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	528	GCGGCGC A AGCGGU	3307
573	ACAGCGGC CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	529	GUGGCGC C GCGGCGU	3308
576	GCGACCU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	530	GCGGCGC C GCGGCGU	3309
579	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	531	GCGGCGC U GCGGCGU	3310
584	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	532	GCGGCGC C AGCGGU	3311
585	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	533	GCGGCGC A AGCGGU	3312
588	CAGCGGC CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	534	GCGGCGC U AGCGGU	3313
595	UGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	535	GCGGCGC U AGCGGU	3314
598	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	536	GCGGCGC C AGCGGU	3315
599	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	537	GCGGCGC A AGCGGU	3316
601	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	538	GCGGCGC U AGCGGU	3317
602	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	539	GCGGCGC A AGCGGU	3318
607	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	540	GCGGCGC C AGCGGU	3319
608	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	541	GCGGCGC C AGCGGU	3320
612	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	542	GCGGCGC C AGCGGU	3321
613	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	543	GCGGCGC C AGCGGU	3322
614	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	544	GCGGCGC C AGCGGU	3323
615	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	545	GCGGCGC C AGCGGU	3324
618	UAGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	546	GCGGCGC C AGCGGU	3325
619	UAGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	547	GCGGCGC A AGCGGU	3326
621	CAGCGGC CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	548	GCGGCGC A AGCGGU	3327
625	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	549	GCGGCGC U AGCGGU	3328
628	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	550	UAGCGGU C AGCGGU	3329
634	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	551	AGCGGU C AGCGGU	3330
635	AGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	552	GCGGCGC C AGCGGU	3331
640	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	553	AGCGGU U AGCGGU	3332
661	UAGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	554	AGCGGU C AGCGGU	3333
662	UAGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	555	AGCGGU U AGCGGU	3334
663	UAGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	556	GCGGCGC C AGCGGU	3335
669	UAGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	557	GCGGCGC A AGCGGU	3336
677	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	558	UAGCGGU A AGCGGU	3337
685	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	559	AGCGGU C AGCGGU	3338
690	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	560	GCGGCGC C AGCGGU	3339
693	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	561	GCGGCGC C AGCGGU	3340
694	AGCGGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	562	GCGGCGC C AGCGGU	3341
695	CAGCGGC CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	563	GCGGCGC U AGCGGU	3342
696	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	564	GCGGCGC U AGCGGU	3343
701	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	565	GCGGCGC C AGCGGU	3344
702	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	566	GCGGCGC U AGCGGU	3345
705	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	567	GCGGCGC C AGCGGU	3346
706	GCGGCGU CUGAUGAG GCGGUUAGGC CGAA IGAGCGU	568	GCGGCGC A AGCGGU	3347

Table IV

709	GCACCCGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGCAG	569	CUGCCAGC	C	CCGGGUGC	3348
710	CGACCCCG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGGCA	570	UGCCAGCC	C	CGGGUGCG	3349
711	UDGACCCD	CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGGC	571	GCCAGGCC	C	GGGUGCGA	3350
734	GCUGGCAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACCCCGC	572	GCGGGGCG	A	GUGCCAGC	3351
739	CUGCGGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IACUGGC	573	GCGAGGCG	C	AGCCGAAG	3352
740	ACUGCGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IACACUGC	574	GCAGUGGC	A	GCCGAAGU	3353
743	CAGACUUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGCAC	575	GUCCAGCC	C	GAAUGUCG	3354
750	GCAACCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGGC	576	CCGAAGGC	U	GCCGUUGC	3355
753	UGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCUU	577	AAGUCUGC	C	GUUGGCCA	3356
759	GCGGCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	578	GCCGUUGC	C	CAAGAGGC	3357
760	GCGGCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	579	CCGUUGGC	C	AAGAGGCC	3358
761	GCGGCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	580	CGGUUGGC	A	AAGAGGCC	3359
768	CAAGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGGC	581	CAAGAGGC	C	CAGGCGUG	3360
769	CAAGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGGC	582	AAAGAGGC	C	AGGCGUGG	3361
770	GCAACCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGGC	583	AAGAGGCC	A	AGGCGUGC	3362
781	UCAAGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGGC	584	CGGUUGGC	U	GCCCGUGA	3363
784	GAAGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	585	GGGCGUGC	C	CGUGAGGC	3364
785	CGGCGUAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	586	GCGGUGGC	C	CGUGAGGC	3365
786	CGGCGUAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	587	CGGCGUGC	C	UGAGCGGG	3366
787	UDGCGGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	588	CGGCGUGC	U	AGGCGGGA	3367
792	UDGCGGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGC	589	CGGCGUGC	C	GAGCGGGA	3368
804	GCCGAAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGGC	590	GCGGAGGC	C	CGUUGGCG	3369
805	UGGCGAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGUGGC	591	CGGAGGCC	C	GUUGGGCA	3370
813	AAGAGGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGAGGC	592	CGUUGGCG	A	GCGGUGCU	3371
810	UGGCGAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGUGGC	593	CAAGAGGC	C	UGGCGGCCA	3372
821	GUGGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGUC	594	AGGGGUGC	U	GCGCGCAC	3373
826	CGGCGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGAGGA	595	UGGUGGCG	C	CAGCGGGG	3374
827	GCGGCGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGAGGA	596	CGGCGGCG	C	AGCGGGGC	3375
828	UGGCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGAG	597	CGGCGGCG	A	CGGCGGCA	3376
830	CGUGCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGGCG	598	GCGGCGAC	C	CGGCGAGG	3377
831	CGUGCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGGCG	599	GCGGCGAC	C	GCGCGAGGA	3378
836	AGGCGGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGGU	600	AGGCGGCG	A	GAGCGGCU	3379
849	GCGGCAUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGAGGC	601	GCGGCGAC	C	GAGUGGAC	3380
857	GAAAGCAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGUGG	602	CGAGUGAC	C	GUGGUGUC	3381
866	CAGGACAC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGCAC	603	GCGGUGUC	U	GUGGUGUG	3382
877	CGGCGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCAC	604	CGGCGGUC	A	CGGCGCAC	3383
879	GCGGCGCA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGCAC	605	GCGGCGAC	C	UGGCGAGC	3384
880	GCGGCGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGCAC	606	GCGGCGAC	U	GCGGAGAC	3385
883	GCGGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGGGA	607	CGAGCGGC	C	AGAGCGGC	3386
884	GCGGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGGCG	608	CAGCGGCG	A	GAGCGGCG	3387
883	CGUGCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGCA	609	UGGCGAGC	C	CGCGGAAG	3388
889	CGUGCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGGC	610	GCGGAGCC	C	GCGGAAGA	3389
892	GCGGCGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGUC	611	AGAGCGGC	C	GAGGAGGC	3390
901	AAGAGGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGUC	612	GAGGAGGC	C	AGGCGGUC	3391
902	CAAGAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCGUC	613	AAGAGGCG	A	CGGCGGUG	3392
904	UGGAGAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCGUC	614	GAGGCGAC	C	CGGCGGGA	3393
905	CGGCGAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCGUC	615	AAGCGGCG	U	CGGCGGAG	3394

Table IV

907	CCUCCAA CUGAUGAG GCGUUAGGC CGAA IAGGUGGC	616	GCCACCUC U UUGGAGGG	3395
921	UGCCAGAG CUGAUGAG GCGUUAGGC CGAA ICGCACCC	617	GGGUGGCG U CUGUGGCA	3396
923	CGUGCCAG CUGAUGAG GCGUUAGGC CGAA IAGCGCAC	618	GUGGCGUC U CUGGCAAG	3397
925	CGGUGGCG CUGAUGAG GCGUUAGGC CGAA IAGAGGCG	619	GCGUGUC U GGCAGCG	3398
929	GUGGCGCG CUGAUGAG GCGUUAGGC CGAA ICCAGAGA	620	TCUGGCG A CGGCGAC	3399
935	GUGGCGAG CUGAUGAG GCGUUAGGC CGAA ICGCGUGC	621	GCACGCG C ACUGCCAC	3400
936	GUGGCGAG CUGAUGAG GCGUUAGGC CGAA ICGCGUGC	622	CAGCGCG A CUGCGAC	3401
938	UGGUGGCG CUGAUGAG GCGUUAGGC CGAA IUGCGGCG	623	CGGCGAC U CCGACCA	3402
940	GAGGCGUG CUGAUGAG GCGUUAGGC CGAA IAGUGGCG	624	CGCGACU C CACCGACU	3403
941	GAGGCGUG CUGAUGAG GCGUUAGGC CGAA IAGUGGCG	625	CGCGACU C CACCGACU	3404
942	CGGAGGCG CUGAUGAG GCGUUAGGC CGAA IAGAGUGG	626	CGAGUGC A CCGAGUG	3405
944	CAGGAGUG CUGAUGAG GCGUUAGGC CGAA IUGGAGUG	627	ACUGCGC C CAGUGUG	3406
945	CGCGGAGU CUGAUGAG GCGUUAGGC CGAA IAGGAGAG	628	UGCGAC C AUGGUGG	3407
946	CGCGGAGU CUGAUGAG GCGUUAGGC CGAA IAGGAGAG	629	UGCGAC A UCGGUGG	3408
949	CGGCGAC CUGAUGAG GCGUUAGGC CGAA IAGGUGG	630	CAGCGAC C GUGGUGG	3409
956	GUGGUGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	631	UGGUGG C CGCGAC	3410
959	GUGGUGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	632	UGGUGG C AGCGAC	3411
960	CGGUGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	633	UGGUGG C AGCGAC	3412
963	CGGUGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	634	CGCGAC A CCGCGG	3413
965	CGGUGG CUGAUGAG GCGUUAGGC CGAA IUGGUGG	635	CGCGAC C AGCGG	3414
966	CGGUGG CUGAUGAG GCGUUAGGC CGAA IUGGUGG	636	CGCGAC A CCGGCG	3415
974	GAGGCGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	637	AGCGG C CCGACU	3416
975	UGGAGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	638	CGCGG C CCGACU	3417
976	GUGGAGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	639	CGCGG C CCGACU	3418
977	UGGAGG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	640	CGCGG C CCGACU	3419
978	AUGGAGU CUGAUGAG GCGUUAGGC CGAA ICAGCGG	641	CGCGG C AUGACU	3420
979	GAGGAGU CUGAUGAG GCGUUAGGC CGAA ICAGCGG	642	CGCGG C AUGACU	3421
982	CGCGAGU CUGAUGAG GCGUUAGGC CGAA IAGGCGG	643	CGCGG C AUGACU	3422
983	CGCGAGU CUGAUGAG GCGUUAGGC CGAA IAGGCGG	644	CGCGG C AUGACU	3423
985	CGCGAGU CUGAUGAG GCGUUAGGC CGAA IUGGAGG	645	CGCGG C AUGACU	3424
993	GAGGAGU CUGAUGAG GCGUUAGGC CGAA ICAGCGG	646	AUGGCG C AGCGG	3425
994	GAGGAGU CUGAUGAG GCGUUAGGC CGAA ICAGCGG	647	UGGCGG A CGCGG	3426
996	AGGAGG CUGAUGAG GCGUUAGGC CGAA IUGGCGG	648	CGCGG C AGGCGG	3427
997	CAGGAG CUGAUGAG GCGUUAGGC CGAA IUGGCGG	649	CGCGG C AGGCGG	3428
1002	UGGCGG CUGAUGAG GCGUUAGGC CGAA IAGGUGG	650	AGCGG C UGCGG	3429
1003	CGGCGG CUGAUGAG GCGUUAGGC CGAA IAGGUGG	651	CGCGG C UGCGG	3430
1004	CGGCGG CUGAUGAG GCGUUAGGC CGAA IAGGUGG	652	CAGCGG U GCGGAG	3431
1010	ACAGGCG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	653	CGCGG A CGCGG	3432
1014	GCGGAG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	654	GAGCGG C UGCGG	3433
1015	GCGGAG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	655	GAGCGG U UGCGG	3434
1020	ACAGGCG CUGAUGAG GCGUUAGGC CGAA IAGGAGG	656	CGCGG C CGCGG	3435
1021	UAGGCG CUGAUGAG GCGUUAGGC CGAA IAGGAGG	657	CGCGG C CGCGG	3436
1022	GAGGAG CUGAUGAG GCGUUAGGC CGAA IAGGAGG	658	CGCGG C CGCGG	3437
1023	CGGAGG CUGAUGAG GCGUUAGGC CGAA IAGGAGG	659	UGGCGG C CGCGG	3438
1033	UGGCGG CUGAUGAG GCGUUAGGC CGAA IAGGAGG	660	GCGGAG C GAGGAG	3439
1039	AAGGCG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	661	GCGGAG C AAGGAG	3440
1040	GAGGCG CUGAUGAG GCGUUAGGC CGAA ICAGCGG	662	CGGAGG A AGGAGG	3441

Table IV

1044	AGAGGAAG CUGAUGAG GCGGUUAGGC CGAA ICUGGUC	663	GACCAAGC A CUUCCUCU	3442
1045	GUAGAGGA CUGAUGAG GCGGUUAGGC CGAA IUGGUUG	664	CGAAGCAC U UCCUCUAC	3443
1049	GGAGUAGA CUGAUGAG GCGGUUAGGC CGAA IAAGUGGU	665	AGCAGUUC C UCUACUCC	3444
1050	AGGAUAG CUGAUGAG GCGGUUAGGC CGAA IGAAGUGC	666	GCAGUUC U CUACUCU	3445
1052	UGAAGAAG CUGAUGAG GCGGUUAGGC CGAA IAGAAGU	667	ACUUCUCU U ACUCCUCA	3446
1055	GCGUAGAG CUGAUGAG GCGGUUAGGC CGAA IUAAGAAG	668	UCUUCUAC U CUACAGGC	3447
1057	UDGCUJA CUGAUGAG GCGGUUAGGC CGAA IAGUAGA	669	CUUACUUC C UCAGGCGA	3448
1058	GUUGCUJG CUGAUGAG GCGGUUAGGC CGAA IGAUAGA	670	UUUACUUC U CAGGCGAC	3449
1060	UUGUGGUC CUGAUGAG GCGGUUAGGC CGAA IAGAAGUA	671	UACUUCUC A GCGACAA	3450
1067	CUUGUUCU CUGAUGAG GCGGUUAGGC CGAA IUUGUUG	672	CAAGUAC A AGAAGCAG	3451
1074	GCGGCAAG CUGAUGAG GCGGUUAGGC CGAA IUUGUUG	673	CAAGGAGC A CUUGGCG	3452
1077	AGGCGCAG CUGAUGAG GCGGUUAGGC CGAA IUUGUUG	674	GAGGAGC U GCGGCGU	3453
1081	GGAAGGAG CUGAUGAG GCGGUUAGGC CGAA ICGGCAAG	675	GCGGCGC C UUCUUC	3454
1084	AGGAAGGA CUGAUGAG GCGGUUAGGC CGAA ICGGCAAG	676	CUUGGCGC C UUCUUC	3455
1087	UAGAAGAG CUGAUGAG GCGGUUAGGC CGAA ICGGCGCA	677	UGGCGGUC U CUUCUUA	3456
1089	AGUAGGAA CUGAUGAG GCGGUUAGGC CGAA IAGGCGG	678	CGGCGGUC C UUCUUC	3457
1089	GAGUAAGA CUGAUGAG GCGGUUAGGC CGAA IAGGCGG	679	GCGGCGUC U UCUUAG	3458
1090	GUGAGUA CUGAUGAG GCGGUUAGGC CGAA IAGGAGG	680	CUUGGUC C UAUAGG	3459
1092	AGUAGAG CUGAUGAG GCGGUUAGGC CGAA IGAAGGAG	681	CUUGGUC U AUAGGUC	3460
1095	GAAGGUJ CUGAUGAG GCGGUUAGGC CGAA IUAAGGAG	682	CUUGGUC U AGGUCUC	3461
1097	CAAGGAG CUGAUGAG GCGGUUAGGC CGAA IAUAGGAG	683	UCUAGUC A GUCUCUG	3462
1100	CUUAGAG CUGAUGAG GCGGUUAGGC CGAA IUAGGUA	684	UACUAGC U CUUGAGG	3463
1102	GGGCUAG CUGAUGAG GCGGUUAGGC CGAA IAGGUGAG	685	CUAGGUC U UGAGGCG	3464
1104	UGGCGGUC CUGAUGAG GCGGUUAGGC CGAA IAGGUGG	686	CAAGGUC U GAGGCGCA	3465
1110	UCAGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGCAAG	687	UCUAGGUC C GAGGCGGA	3466
1111	GUAGGCGU CUGAUGAG GCGGUUAGGC CGAA ICGGCAAG	688	CUAGGUC C AGGCGGAC	3467
1112	AGUAGGUC CUGAUGAG GCGGUUAGGC CGAA ICGGCGCA	689	UGAGGCGC A GCGGAGU	3468
1115	GCGCAAGCA CUGAUGAG GCGGUUAGGC CGAA ICGGCGC	690	GCGGCGC C UGAGGCG	3469
1116	GCGCAAGC CUGAUGAG GCGGUUAGGC CGAA ICGGCGG	691	GCGGCGC U GAGGCGG	3470
1120	CGAGGCGC CUGAUGAG GCGGUUAGGC CGAA IUAGGUCU	692	AGGCGGAC U GCGGCGG	3471
1126	AGGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGCAAG	693	ACUAGGUC U GCGGCGU	3472
1134	UCUAGGAG CUGAUGAG GCGGUUAGGC CGAA ICGGCGA	694	UGGCGGUC U GCGGAGGA	3473
1144	AGAAAGAU CUGAUGAG GCGGUUAGGC CGAA IUUGGCA	695	GUAGGAGC C AUUUGUC	3474
1145	CGAAGAGA CUGAUGAG GCGGUUAGGC CGAA IUGGCGA	696	UGGAGAGC A UCUUGUG	3475
1148	AGGAGAG CUGAUGAG GCGGUUAGGC CGAA IAUUGUCU	697	AGGAGUC U UCUUGGU	3476
1152	UGGAGAGC CUGAUGAG GCGGUUAGGC CGAA IAAAGAG	698	CAUUGUC U GCGGCGA	3477
1159	CAAGGCGU CUGAUGAG GCGGUUAGGC CGAA IAAAGAG	699	CGGCGGUC C AGGCGG	3478
1160	CGAGGCGC CUGAUGAG GCGGUUAGGC CGAA IGAAGCGA	700	CGGCGGUC A GCGGCGG	3479
1164	CGAUGGAG CUGAUGAG GCGGUUAGGC CGAA ICGGAGAA	701	UUGGAGC C UGAGGUC	3480
1165	CGAUGGCA CUGAUGAG GCGGUUAGGC CGAA ICGGAGGA	702	UGGAGGUC C UGAGGUC	3481
1166	CGGCAUGC CUGAUGAG GCGGUUAGGC CGAA ICGGCGG	703	CGGAGGUC U GAGGCGA	3482
1173	GAAGGCGU CUGAUGAG GCGGUUAGGC CGAA ICAAGGAG	704	CGGAGGUC C AGGAGUC	3483
1174	CGAGGCGC CUGAUGAG GCGGUUAGGC CGAA ICGAGGCA	705	CGGAGGUC A GCGAGUC	3484
1180	CGGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGCGG	706	CGAGGAGC U CGGCGAG	3485
1182	ACGCGGCG CUGAUGAG GCGGUUAGGC CGAA IAGGCGU	707	AGGAGGUC C CGGCGAGU	3486
1183	AACGCGG CUGAUGAG GCGGUUAGGC CGAA IAGGCGC	708	CGGAGGUC C CGGCGGU	3487
1184	CAAGGCGC CUGAUGAG GCGGUUAGGC CGAA IAGGCGC	709	CGAGGUC C CGGCGGU	3488

Table IV

1187	GGGCAACC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGAG	710	CUCCCCGC	A	GGUUGCCC	3489
1194	GCAGGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAAACUG	711	CAGGUUGC	C	CCGCCUGC	3490
1195	GGCAAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAACUJ	712	AGGUUGGC	C	CGCCUGCC	3491
1196	GGCAAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGTAACU	713	GGGUUGGC	C	CGCCUGCC	3492
1199	CUGGAGCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCA	714	UGGCGGCG	C	UGCCCGAG	3493
1200	GCGGCGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	715	GGCGGCGC	U	GGCCCGAG	3494
1203	AGGCGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	716	CGCGGCGC	C	CGCGGCGC	3495
1204	UAGGCGUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	717	CGCGGCGC	C	CGCGGCGC	3496
1205	GGAAGCGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	718	GGCGGCGC	C	AGCGGCGC	3497
1206	AGGAGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	719	CGCGGCGC	A	GGCGGCGC	3498
1211	UGGCGGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	720	CGCGGCGC	U	AGCGGCGC	3499
1214	GAUUGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	721	AGCGGCGC	U	GGCGGCGC	3500
1218	GGGCGGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	722	GAUUGGCG	A	AGCGGCGC	3501
1227	GAAGAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	723	AGCGGCGC	C	CGCGGCGC	3502
1228	AGAGAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	724	AGCGGCGC	C	CGCGGCGC	3503
1229	GAAGAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	725	UGCGGCGC	C	GGCGGCGC	3504
1230	GAAGAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	726	GGCGGCGC	U	GGCGGCGC	3505
1236	GAAGAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	727	GGCGGCGC	U	GGCGGCGC	3506
1242	UGGCGGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	728	UGCGGCGC	U	GGCGGCGC	3507
1245	GGGUUGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	729	GGCGGCGC	U	GGCGGCGC	3508
1253	CUGGCGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	730	UGCGGCGC	C	AGCGGCGC	3509
1254	AGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	731	UGCGGCGC	A	AGCGGCGC	3510
1260	AGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	732	CGCGGCGC	A	GGCGGCGC	3511
1265	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	733	CGCGGCGC	C	CGCGGCGC	3512
1266	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	734	CGCGGCGC	C	CGCGGCGC	3513
1267	AGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	735	CGCGGCGC	C	GAAGGCGC	3514
1268	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	736	AGCGGCGC	U	AGCGGCGC	3515
1278	UGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	737	CGCGGCGC	U	CGCGGCGC	3516
1280	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	738	GGCGGCGC	C	CGCGGCGC	3517
1281	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	739	GGCGGCGC	U	GAAGGCGC	3518
1283	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	740	GGCGGCGC	A	GAAGGCGC	3519
1290	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	741	GAAGGCGC	A	CGCGGCGC	3520
1292	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	742	AGCGGCGC	U	CGCGGCGC	3521
1295	UGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	743	CGCGGCGC	C	CGCGGCGC	3522
1296	CUGGCGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	744	CGCGGCGC	C	GGCGGCGC	3523
1299	GAAGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	745	CGCGGCGC	U	CGCGGCGC	3524
1296	GGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	746	CGCGGCGC	U	GGCGGCGC	3525
1213	UGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	747	CGCGGCGC	A	CGCGGCGC	3526
1215	GGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	748	GGCGGCGC	C	CGCGGCGC	3527
1216	GGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	749	GGCGGCGC	C	CGCGGCGC	3528
1217	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	750	GGCGGCGC	C	AGCGGCGC	3529
1218	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	751	GGCGGCGC	A	CGCGGCGC	3530
1221	AGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	752	AGCGGCGC	A	GGCGGCGC	3531
1224	GAAGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	753	CGCGGCGC	C	GGCGGCGC	3532
1231	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	754	CGCGGCGC	U	CGCGGCGC	3533
1236	UGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	755	CGCGGCGC	C	GGCGGCGC	3534
1237	CGCGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGGCG	756	CGCGGCGC	C	GGCGGCGC	3535

Table IV

1347	AGCCUCUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUUCUCC	757	GGAGAAGC	C	CCAGGGCU	3536
1348	GAACCCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCUC	758	GAAGAGCC	C	CAGGGGUC	3537
1349	AAGCCCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGUCUUCU	759	AGAAACCC	C	AGGGGCU	3538
1350	CAGAGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCUUC	760	GAAAGCCC	A	GGGGUCUG	3539
1355	CGACACA	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUGGG	761	CCCAAGGC	U	GUUGGGCG	3540
1357	GCCGCCAC	CUGAUGAG	GCCGUUAGGC	CGAA	IAACCCUG	762	CAAGGCUC	U	GUUGGGGC	3541
1366	UCUCUGGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGAC	763	GUUGGGGC	C	CCGAGGGA	3542
1367	CUCCUCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGCCA	764	UGGCGCCC	C	CCGAGGAG	3543
1368	CUCCUCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGCCC	765	GGGGGCCC	C	CGAGGAGG	3544
1369	UCUCUCUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGCCC	766	GGGGGCCC	C	GAAGGAGA	3545
1382	GGGGUCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUCU	767	AGGAGGAC	A	GAAGGCCC	3546
1384	CGGGGGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCUCU	768	GAAGGAC	A	GAAGGCCG	3547
1384	GGGACGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUCU	769	ACAGGAC	C	CCGUCUC	3548
1389	GGGACGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUCU	770	ACAGGAC	C	CCGUCUC	3549
1390	AGGCGAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUCU	771	ACAGGAC	C	CCGUCUC	3550
1391	CAAGGAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGUCUC	772	CAAGGAC	C	GGGCCUC	3551
1397	CUAGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGACGG	773	GGGGUC	C	GGGGGAC	3552
1398	GGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGACGG	774	GGGGUC	U	GGGGGAC	3553
1404	GGAGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICACGAC	775	GGGGUC	A	GGGGGUC	3554
1407	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAAC	776	GGGGUC	U	GGGGGUC	3555
1410	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAAC	777	GGGGUC	U	GGGGGAC	3556
1412	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAAC	778	GGGGUC	C	GGGGGAC	3557
1415	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAAC	779	GGGGUC	C	GGGGGAC	3558
1416	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAAC	780	GGGGUC	A	GGGGGAC	3559
1419	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAAC	781	GGGGUC	A	GGGGGAC	3560
1421	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUC	782	GGGGUC	A	GGGGGAC	3561
1424	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUC	783	GGGGUC	A	GGGGGAC	3562
1427	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUC	784	GGGGUC	C	GGGGGAC	3563
1428	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	785	GGGGUC	C	GGGGGAC	3564
1429	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	786	GGGGUC	C	GGGGGAC	3565
1430	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	787	GGGGUC	U	GGGGGAC	3566
1434	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	788	GGGGUC	A	GGGGGAC	3567
1445	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	789	GGGGUC	U	GGGGGAC	3568
1456	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	790	GGGGUC	C	GGGGGAC	3569
1457	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	791	GGGGUC	U	GGGGGAC	3570
1460	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	792	GGGGUC	C	GGGGGAC	3571
1461	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	793	GGGGUC	U	GGGGGAC	3572
1466	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	794	GGGGUC	C	GGGGGAC	3573
1470	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	795	GGGGUC	U	GGGGGAC	3574
1476	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	796	GGGGUC	C	GGGGGAC	3575
1477	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	797	GGGGUC	C	GGGGGAC	3576
1478	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	798	GGGGUC	C	GGGGGAC	3577
1479	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	799	GGGGUC	C	GGGGGAC	3578
1480	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	800	GGGGUC	A	GGGGGAC	3579
1484	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	801	GGGGUC	C	GGGGGAC	3580
1485	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	802	GGGGUC	U	GGGGGAC	3581
1487	GGGGCAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCUC	803	GGGGUC	U	GGGGGAC	3582

Table IV

1493	GUGGUGG CUGAUGAG GCGGUAAGG CGAA ICGCCAGA	804	UCUGGGGC U CCAGGCAC	3583
1495	UUGUGCCU CUGAUGAG GCGGUAAGG CGAA IAGCCCA	805	UGGGGUC C AGGCACAA	3584
1496	GUGGUGG CUGAUGAG GCGGUAAGG CGAA IAGCCCA	806	GGGGGUC A GGCACAA	3585
1500	GUGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	807	CGGAGG A CAGGAA	3586
1502	GCGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	808	CGGAGG A CAGGAA	3587
1511	GAGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	809	AGGAGG C GCGGAG	3588
1514	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	810	AAAGGAG U UCGGAG	3589
1517	GUGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	811	GCGGAG C UAGGAA	3590
1518	UGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	812	CGGAGG U CAGGAA	3591
1520	GUGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	813	GCGGAG A GAGGAG	3592
1526	CGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	814	UAGGAG A CAGGAG	3593
1528	AAAGGAG CUGAUGAG GCGGUAAGG CGAA IAGGAG	815	AGGAGG C AAGGAG	3594
1529	GAAGGAG CUGAUGAG GCGGUAAGG CGAA IAGGAG	816	GAAGGAG A AGGAGG	3595
1538	CAGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	817	AGGAGG A UCGGAG	3596
1541	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	818	AGGAGG U CCGGAG	3597
1543	UUGGAG CUGAUGAG GCGGUAAGG CGAA IAGGAG	819	UUGGAG C CCGGAG	3598
1544	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	820	UAGGAG C UAGGAG	3599
1545	GUGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	821	CGGAGG U GAGGAG	3600
1554	GUGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	822	GGGAGG A UAGGAG	3601
1558	GAGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	823	AAAGGAG C AAAGGAG	3602
1559	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	824	AGGAGG C AGGAGG	3603
1563	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	825	UAGGAGG U CCGGAG	3604
1565	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	826	CGGAGG U CCGGAG	3605
1569	GUGGUGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	827	CGGAGG U GAGGAG	3606
1572	UAGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	828	CGGAGG A GAGGAG	3607
1578	UAGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	829	GAGGAGG U AGGAGG	3608
1604	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	830	UGGAGG U GCGGAG	3609
1609	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	831	GAGGAGG U GCGGAG	3610
1614	UAGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	832	CGGAGG U GCGGAG	3611
1619	UGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	833	GCGGAG C GAGGAG	3612
1625	AAAGGAG CUGAUGAG GCGGUAAGG CGAA IAGGAG	834	GAGGAGG C AGGAGG	3613
1626	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	835	AGGAGG C AGGAGG	3614
1627	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	836	AGGAGG A GCGGAG	3615
1637	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	837	GCGGAGG U GCGGAG	3616
1644	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	838	CGGAGG C GCGGAG	3617
1649	UGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	839	GUGGAGG C GAGGAG	3618
1651	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	840	CGGAGG A GAGGAG	3619
1656	GAGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	841	GAGGAGG A GCGGAG	3620
1658	AGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	842	AGGAGG C GCGGAG	3621
1662	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	843	GAGGAGG U GCGGAG	3622
1676	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	844	AGGAGG C UGGAGG	3623
1677	AGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	845	GAGGAGG U GCGGAG	3624
1681	AGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	846	AGGAGG C AAAGGAG	3625
1682	AGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	847	CGGAGG A AGGAGG	3626
1683	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	848	CGGAGG C GCGGAG	3627
1689	CGGAGG CUGAUGAG GCGGUAAGG CGAA IAGGAG	849	CGGAGG U GAGGAG	3628
1692	UCAGGAG CUGAUGAG GCGGUAAGG CGAA IAGGAG	850	GUGGAGG A CCGGAG	3629

Table IV

1694	CAUCAAGC CUGAUGAG GCGGUUAAGC CGAA IUGCAAGG	851	UCCUGCAG U GGCUGAUG	3630
1698	CATUCAGC CUGAUGAG GCGGUUAAGC CGAA ICCAGAGC	852	GCAUGGCG U GAUGAGUG	3631
1722	ACCUAGAG CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	853	CBUCAGAG U GUCAGGU	3632
1725	AAGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICAGGUCG	854	CGAGAGUG U CAGGUCUU	3633
1727	GAAAGAGC CUGAUGAG GCGGUUAAGC CGAA IAGCAGCU	855	AGCUGUC A GUCUUCU	3634
1732	UAAAGAGG CUGAUGAG GCGGUUAAGC CGAA IAGCAGG	856	CUCAAGUC U UUCUUCU	3635
1736	GACAUAAA CUGAUGAG GCGGUUAAGC CGAA IAAAGAGC	857	CGUCUUCU U UUAUGUC	3636
1745	GCUCAGAG CUGAUGAG GCGGUUAAGC CGAA IACAGAAA	858	UUUAGUC A CGGAGAGC	3637
1753	UGAAGAGU CUGAUGAG GCGGUUAAGC CGAA IUCAGAGU	859	ACGAGAGC C ACGUUCU	3638
1754	UGAAGAGG CUGAUGAG GCGGUUAAGC CGAA IUCAGAGG	860	CGAGAGC A CGUUCU	3639
1761	UGUCUUCU CUGAUGAG GCGGUUAAGC CGAA IAAAGAGC	861	CACGUCU A AAAGAGC	3640
1769	AAGAGAGC CUGAUGAG GCGGUUAAGC CGAA IUUCUUCU	862	AAAAAGC A CGCUCU	3641
1773	AGAAAAAG CUGAUGAG GCGGUUAAGC CGAA ICCUCUCU	863	GAAGAGC U UUCUUCU	3642
1775	CGAGAAAA CUGAUGAG GCGGUUAAGC CGAA IAGCUCU	864	ACAGAGC U UUCUUCU	3643
1781	CUUCAGGU CUGAUGAG GCGGUUAAGC CGAA IAAAGAGG	865	UCUUCUCU U ACCGAGG	3644
1784	ACUCUUCU CUGAUGAG GCGGUUAAGC CGAA IUAGAGAA	866	UUUUCU C CGAA AGU	3645
1796	CUUCAGGU CUGAUGAG GCGGUUAAGC CGAA IACAGUCU	867	AGAGAGC U CGAGAGG	3646
1802	UGAGAGU CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	868	UCUAGAGC A AGUUCAG	3647
1809	CAAGAGGU CUGAUGAG GCGGUUAAGC CGAA ICAAGAGG	869	CAAGAGC A AAGCAGG	3648
1814	CAAGAGG CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	870	UGAGAGC A UUGAGAGC	3649
1823	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA IAUUCAG	871	UGAGAGC A GACAGAGC	3650
1827	UGAGAGU CUGAUGAG GCGGUUAAGC CGAA IUCAGAGU	872	AAUCAGAG A GCAGAGG	3651
1830	UCUUCAGG CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	873	CAGAGAGC A UUGAGAG	3652
1832	CGUCUUCU CUGAUGAG GCGGUUAAGC CGAA IUGAGAGC	874	GAAGAGC U CGAA AGG	3653
1845	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICAGAGUC	875	GAAGAGC A CGUCAGG	3654
1848	GCUCAGAG CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	876	CGUCAGC U CGGAGAGC	3655
1857	CUUCAGGU CUGAUGAG GCGGUUAAGC CGAA IUCAGAGU	877	CGUCAGC U CGGAGAGG	3656
1867	CUAGAGUC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	878	UCGAGAGC A CAGGAGG	3657
1874	AGUCAGC CUGAUGAG GCGGUUAAGC CGAA IACAGAGC	879	CGAGAGC A GCGAGAGC	3658
1878	CGUCAGAG CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	880	CGUCAGC A GCGAGAGG	3659
1881	CUUCAGGU CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	881	CAAGAGC A UCGAGAGG	3660
1891	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	882	CGAGAGC C AGGAGAGC	3661
1892	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	883	CGAGAGC C AGGAGAGC	3662
1896	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	884	AGAGAGC C CGGAGAGC	3663
1897	AGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	885	CGAGAGC C CGGAGAGC	3664
1900	CUAGAGUC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	886	AGAGAGC C CGGAGAGC	3665
1901	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	887	CGAGAGC C CGGAGAGC	3666
1902	AGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICUCAGAG	888	CGAGAGC C CGGAGAGC	3667
1905	UGAGAGU CUGAUGAG GCGGUUAAGC CGAA ICAGAGAG	889	CGAGAGC C CGGAGAGC	3668
1912	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICAGAGAG	890	CGAGAGC C CGGAGAGC	3669
1913	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICAGAGAG	891	UGAGAGC A GAGAGAGC	3670
1917	UGAGAGG CUGAUGAG GCGGUUAAGC CGAA ICAGAGAG	892	CGAGAGC U CGGAGAGC	3671
1919	CAAGAGG CUGAUGAG GCGGUUAAGC CGAA IAGAGAGG	893	CGAGAGC C CGGAGAGC	3672
1922	CGAGAGC CUGAUGAG GCGGUUAAGC CGAA ICAGAGAG	894	CGAGAGC U CGGAGAGC	3673
1925	CUAGAGUC CUGAUGAG GCGGUUAAGC CGAA IAGAGAGG	895	UGAGAGC A CGGAGAGC	3674
1928	AGAGAGC CUGAUGAG GCGGUUAAGC CGAA IAGAGAGC	896	CGAGAGC C CGGAGAGC	3675
1929	CAAGAGC CUGAUGAG GCGGUUAAGC CGAA IAGAGAGG	897	CUAGAGC C CGGAGAGC	3676



Table IV

1930	UCAGGCUU CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	898	UUCAUCCC C AAGCCUGA	3677
1931	GUCAGGCU CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	899	UCAUCCCC A AGCCUGA	3678
1935	GCGCGUCA CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	900	CCCCAAGC C UGAGGGG	3679
1936	AGCGCGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	901	CCCCAAGC U GAGGGG	3680
1944	UCGCGCGC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	902	UGAGGGG U GCGGGCGA	3681
1950	UCACAAUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	903	GCGGGGG C GAUUGUGA	3682
1961	GUAGUCCA CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	904	UUGUGAAC A UGAGUAC	3683
1967	CAAGAGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	905	ACAGGGG U AGGUGUG	3684
1981	AACGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	906	GUGGGAG C AGAAGUG	3685
1982	GAAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	907	UGGGAGG C AGAAGUG	3686
1991	UGUGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	908	GAAGUGG C AGAAGUG	3687
1994	UGUGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	909	CGUGGGG A AGAAGUG	3688
2008	AGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	910	AAAGGGG C AGGUGUG	3689
2016	UGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	911	CGAGGGG U AGGUGUG	3690
2018	UGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	912	AGGGGGG A AGGUGUG	3691
2020	AGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	913	CGUGGGG C AGGUGUG	3692
2021	AGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	914	UGGGGGG U AGGUGUG	3693
2035	UGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	915	UGGGGGG A AGGUGUG	3694
2037	CGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	916	GAAGGGG U AGGUGUG	3695
2042	GAAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	917	AGGGGGG A AGGUGUG	3696
2049	CGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	918	CGGGGGG U AGGUGUG	3697
2051	CGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	919	GGGGGGG A AGGUGUG	3698
2054	CGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	920	UGGGGGG U AGGUGUG	3699
2072	GAAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	921	GGGGGGG C AGGUGUG	3700
2077	CGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	922	GGGGGGG C AGGUGUG	3701
2074	AGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	923	CGGGGGG C AGGUGUG	3702
2078	CGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	924	GGGGGGG C AGGUGUG	3703
2079	CGAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	925	CGGGGGG U AGGUGUG	3704
2081	GGGGGGG C AGGUGUG	926	CGGGGGG C AGGUGUG	3705
2082	AGGGGGG C AGGUGUG	927	CGGGGGG U AGGUGUG	3706
2089	AGGGGGG C AGGUGUG	928	UGGGGGG C AGGUGUG	3707
2090	CGGGGGG C AGGUGUG	929	UGGGGGG U AGGUGUG	3708
2092	CGGGGGG C AGGUGUG	930	GGGGGGG U AGGUGUG	3709
2097	CGGGGGG C AGGUGUG	931	CGGGGGG U AGGUGUG	3710
2102	AGGGGGG C AGGUGUG	932	CGGGGGG C AGGUGUG	3711
2103	GAAGUGUC CUGAUGAG GCGGUUAGGC CGAA IGGAUGAA	933	GGGGGGG U AGGUGUG	3712
2114	GGGGGGG C AGGUGUG	934	AGGGGGG C AGGUGUG	3713
2115	AGGGGGG C AGGUGUG	935	CGAGUGG A AGGUGUG	3714
2117	CGGGGGG C AGGUGUG	936	AGGGGGG A AGGUGUG	3715
2122	GGGGGGG C AGGUGUG	937	CGGGGGG C AGGUGUG	3716
2123	GGGGGGG C AGGUGUG	938	AGGGGGG U AGGUGUG	3717
2129	CGGGGGG C AGGUGUG	939	CGGGGGG A AGGUGUG	3718
2131	AGGGGGG C AGGUGUG	940	GGGGGGG C AGGUGUG	3719
2132	CGGGGGG C AGGUGUG	941	GGGGGGG U AGGUGUG	3720
2139	CGGGGGG C AGGUGUG	942	CGGGGGG U AGGUGUG	3721
2152	GGGGGGG C AGGUGUG	943	GGGGGGG C AGGUGUG	3722
2153	CGGGGGG C AGGUGUG	944	UGGGGGG C AGGUGUG	3723

Table IV

2154	GCGGGUCC	CUGAU3AG	GCGGUUA3GC	CGAA	IGGC003C	945	GCGGGCCC	A	GGACCCGC	3724
2159	AGGCGGCG	CUGAU3AG	GCGGUUA3GC	CGAA	IUGGUG3G	946	CCGAGGAC	C	CGCCGCGC	3725
2160	CAGGCGGC	CUGAU3AG	GCGGUUA3GC	CGAA	IGU00UGG	947	CCAGGACC	C	GCCGCGUG	3726
2163	GCUACGGC	CUGAU3AG	GCGGUUA3GC	CGAA	IGG3000C	948	GGAC00GC	C	GCCUGAGC	3727
2166	ACAGCUCU	CUGAU3AG	GCGGUUA3GC	CGAA	IGG3003G	949	CCCG00GC	C	UGAGCUGU	3728
2167	UACAGCUU	CUGAU3AG	GCGGUUA3GC	CGAA	IGG3003G	950	CCCG00GC	U	3AGCUGUA	3729
2172	CAAGUUAU	CUGAU3AG	GCGGUUA3GC	CGAA	IGU00UGG	951	GCGUGAGC	U	3UACUUGG	3730
2177	CUGAGCAA	CUGAU3AG	GCGGUUA3GC	CGAA	IUACAGCU	952	AGCUGUAC	U	UGUGUCAA	3731
2182	AUUCACCU	CUGAU3AG	GCGGUUA3GC	CGAA	IACAAA3U	953	ACUUGUGC	A	AGGUGGAU	3732
2210	G333AU33	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UAG3	954	CGUAC3AC	A	CCAU000C	3733
2212	UG3333AU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UAG3	955	UACGACAC	C	AU0000CA	3734
2213	CUG3333A	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UAG3	956	AC3A00AC	A	U00000AG	3735
2216	GUG33333	CUGAU3AG	GCGGUUA3GC	CGAA	IAG3UG3U	957	AGACCAUC	C	CCCA3GAC	3736
2217	UGU33333	CUGAU3AG	GCGGUUA3GC	CGAA	IAG3UG3U	958	UACCAU0C	C	CCAG3ACA	3737
2218	UGU33333	CUGAU3AG	GCGGUUA3GC	CGAA	IAG3UG3U	959	AGCAU00C	C	CA3GACAG	3738
2219	UGU33333	CUGAU3AG	GCGGUUA3GC	CGAA	IAG3UG3U	960	CCAU000C	C	AGCA0AGG	3739
2220	3000GU33	CUGAU3AG	GCGGUUA3GC	CGAA	IAG3UG3U	961	CAU0000C	A	3GACAG3C	3740
2225	CGUGAG33	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG33	962	CCCA33AC	A	GGUUCACG	3741
2229	CGUG3333	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3C	963	33ACA33C	U	CAG3GAG3	3742
2231	GA000003	CUGAU3AG	GCGGUUA3GC	CGAA	IAG0003U	964	ACA3300C	A	CG3AG3UC	3743
2240	GUG3333A	CUGAU3AG	GCGGUUA3GC	CGAA	IAG00003	965	CG3AG3UC	A	UG3CCAGC	3744
2245	AUGAU3CU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3C	966	GUGAU00C	C	AGCAU0AU	3745
2246	3AG3AU33	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3A	967	UGAU000C	A	GC3U0AUC	3746
2249	UGUG3AU3A	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3A	968	UGG00AGC	A	UGAU0AAA	3747
2252	G333UUG3A	CUGAU3AG	GCGGUUA3GC	CGAA	IAG3UG33	969	CCAG3AUC	A	UGAA000C	3748
2255	UG3333UJ	CUGAU3AG	GCGGUUA3GC	CGAA	IAG3UG3C	970	CGAU0AUC	A	AA0000AG	3749
2259	UGU33333	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG33	971	CAUG0AAA	C	CCAGAA0A	3750
2260	UGU33333	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	972	AUG0AAA0	C	CAGAA0AC	3751
2261	CGUGUUCU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3A	973	UGAA000C	C	AGAA0ACG	3752
2262	AGUGUUCU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	974	CAAA000C	A	GAAC0AGU	3753
2267	GCAGUACG	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG33	975	CCAGAGAC	A	CGUACUGC	3754
2273	AC3CAC3C	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	976	ACAC3UAC	U	CGUGUG3U	3755
2290	UG3A0CAC	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3C	977	CG3UAG3C	C	GUGUG0CA	3756
2297	3300UUCU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG33	978	CGUG3UUC	C	AGAA330C	3757
2298	CG3000UC	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3C	979	CGUG3UUC	A	GAAG330G	3758
2305	CCAU333C	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG33	980	CA3AA33C	C	G000AU33	3759
2308	UG3000AU3	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	981	AA33003C	C	CAUG33CA	3760
2309	GUG300AU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	982	AG30003C	C	AUG33CAC	3761
2311	CGUG300A	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3C	983	G300300C	A	UG33CACG	3762
2316	UG303ACG	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG33	984	CCAG333C	A	CGUG03CA	3763
2321	G300UUCU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3C	985	G3CAC3UC	C	CCAA333C	3764
2324	GAA333CU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	986	AGGUG03C	A	AG300UUC	3765
2329	CGCUG3AA	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG33	987	CCAA333C	C	UGCAA3AG	3766
2330	GUGUGUGA	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3C	988	G3AA333C	U	UGAA3AGC	3767
2333	GUGGUGUC	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	989	AGG00UUC	A	AGAG00AC	3768
2339	AGAGACGU	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3A	990	CCAGAG3C	C	AC3UGUCU	3769
2340	UAGAGAC3	CUGAU3AG	GCGGUUA3GC	CGAA	IUG3UG3U	991	CAAGAG3C	A	CGUCUCUA	3770

Table IV

2345	CAAGGUAG CUGAUGAG GCGGUUAGG	CGAA IACGUGGC	992	GCCACGUC U CUACCUIG	3771
2347	GUCAAGGU CUGAUGAG GCGGUUAGG	CGAA IAGAGGUG	992	CACGUCUC U ACCUJGAC	3772
2350	UCUGUCAA CUGAUGAG GCGGUUAGG	CGAA IUAGAGAC	994	GUUCUJAC C UJGACAGA	3773
2351	GUCUGUCA CUGAUGAG GCGGUUAGG	CGAA IGJAGAGA	995	UCUCUJAC U UGACAGAC	3774
2356	UGGAGGUC CUGAUGAG GCGGUUAGG	CGAA IUCAAJGU	996	ACCUJGAC A GACCUJCA	3775
2360	CGGCUGGA CUGAUGAG GCGGUUAGG	CGAA IUJUGJCA	997	UGACAGAC C UJGAGGCG	3776
2361	ACGGGUGG CUGAUGAG GCGGUUAGG	CGAA IGUCUGUC	998	GACAGAC U CGAGGCGU	3777
2363	GUACGGGU CUGAUGAG GCGGUUAGG	CGAA IAGGUGUG	999	CAGAGGUC C AGGUGUAC	3778
2364	UGJACGUC CUGAUGAG GCGGUUAGG	CGAA IGAGGUJU	1000	AGACGUUC A GUGGUACA	3779
2367	GCAUGJAC CUGAUGAG GCGGUUAGG	CGAA IUJGJAGG	1001	CGUGGAGC C GUACAUUC	3780
2372	GUUGUGGA CUGAUGAG GCGGUUAGG	CGAA IUGJGJGU	1002	AGGUGUAC A UJGAGGAG	3781
2379	CGACGAAC CUGAUGAG GCGGUUAGG	CGAA IUJGCAUG	1003	CAUGGAGC A GUUGGUGG	3782
2389	UGGAGGUG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1004	UJGUGGUC U GACCUJCA	3783
2391	CGUGGAGG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1005	CGUGGUC A UJGAGGAG	3784
2393	GUUGUGGA CUGAUGAG GCGGUUAGG	CGAA IUGJGJGU	1006	UGGUGGAC C UJGAGGAG	3785
2394	UGUGGUGG CUGAUGAG GCGGUUAGG	CGAA IUGJGJGU	1007	GGUGGAC U GAGGAGAG	3786
2397	UGGUGGUC CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1008	UGAGGUC A GAGGAGAG	3787
2404	AGGUGGUC CUGAUGAG GCGGUUAGG	CGAA IUGGUGG	1009	CAGGAGC A AGGUGGUC	3788
2405	CAGGUGGUC CUGAUGAG GCGGUUAGG	CGAA IUGGUGG	1010	AGGAGC A AGGUGGUC	3789
2408	CGUGGAGG CUGAUGAG GCGGUUAGG	CGAA IUGGUGG	1011	AGGAGC C CGUGGAGG	3790
2409	CGGUGGAG CUGAUGAG GCGGUUAGG	CGAA IUGGUGG	1012	GAGGAGC C CGUGGAGG	3791
2412	CAUGGAGC CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1013	IAGGUGG U GAGGAGAG	3792
2422	AUGGAGG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1014	AGGAGG C CGUGGAGG	3793
2429	CGGUGGAG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1015	CGGUGGUC A UGAGGAGG	3794
2436	AGGAGGUC CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1016	CAUGGAGC A AGGUGGUC	3795
2441	CAGGAGG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1017	AGGAGG U CGUGGAGG	3796
2443	GUUGGAGG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1018	CAGGAGC C UGUGGAGG	3797
2444	AUGGAGG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1019	AGGAGG U CGUGGAGG	3798
2446	UGGAGGUC CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1020	AGGUGGUC C CGUGGAGG	3799
2447	GUUGGAGG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1021	CGUGGAGG C CGUGGAGG	3800
2448	CGGUGGAG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1022	CGUGGAGG U GAGGAGG	3801
2458	CGGUGGAG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1023	AGGAGG C AGGUGGUC	3802
2459	CGGUGGAG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1024	AUGGAGG A CGGUGGUC	3803
2467	GAGGAGG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1025	AGGAGG A CGGUGGUC	3804
2468	CGGAGGAG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1026	CGGAGGAG C CGUGGAGG	3805
2469	CGGAGGAG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1027	CGGAGGAG U CGUGGAGG	3806
2471	GAGGAGG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1028	CGGAGGAG U CGGAGGAG	3807
2480	GCGGAGG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1029	CGGAGGAG U CGGAGGAG	3808
2483	GAGGAGG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1030	AGGAGG C AGGUGGUC	3809
2484	UGGAGGUC CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1031	CGGAGGAG U AGGUGGUC	3810
2490	GAGGAGG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1032	UGGAGGAG U CGGAGGAG	3811
2491	CGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IAGGAGG	1033	GAGGAGG A CGGAGGAG	3812
2496	CGGAGGAG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1034	CGGAGGAG C AGGAGGAG	3813
2499	CGGAGGAG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1035	CGGAGGAG C CGGAGGAG	3814
2501	CAGGAGG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1036	UGGAGGAG C AGGAGGAG	3815
2502	GAGGAGG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1037	GAGGAGG A CGGAGGAG	3816
2506	AUGGAGG CUGAUGAG GCGGUUAGG	CGAA ICGAGGAA	1038	CAGGAGG C CGGAGGAG	3817

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2513	GCCCCUGA CUGAUGAG GCGGUUAGGC CGAA ICQCACGG	1039	CCGUGCGC A UCAGGGGC	3818
2514	CUUGCCCG CUGAUGAG GCGGUUAGGC CGAA IAUCCGCA	1040	UGCGCAUC A GGGGCAAG	3819
2520	GUAGGACU CUGAUGAG GCGGUUAGGC CGAA ICQCCUGA	1041	UAGGGGGC A AGUCCUAC	3820
2521	UGGACGUA CUGAUGAG GCGGUUAGGC CGAA IACTUGCC	1042	GGCAAGUC C UACGUCCA	3821
2523	CUGACGCU CUGAUGAG GCGGUUAGGC CGAA IGACTUGC	1043	GCAAGUCC U AGGUCCAG	3822
2534	CUGACACU CUGAUGAG GCGGUUAGGC CGAA IACGUAAG	1044	CUUACGUC C AGUGCCAG	3823
2535	CCUGGCAU CUGAUGAG GCGGUUAGGC CGAA IGACGUAG	1045	CUAUGUCC A GUGGCCAG	3824
2540	GAUCGCCU CUGAUGAG GCGGUUAGGC CGAA IACUUGGA	1046	UCUAGUCC C AGGGGAUC	3825
2541	GAUUGCCU CUGAUGAG GCGGUUAGGC CGAA IGCACUGG	1047	CCAUGUCC A GGGGAUCC	3826
2543	GCCCCGCG CUGAUGAG GCGGUUAGGC CGAA IAUCCGCU	1048	AGGGGAUC C GCGAGGUC	3827
2550	AGCCGUCU CUGAUGAG GCGGUUAGGC CGAA IGACGCCU	1049	GGGGAUCC C GCGAGGCU	3828
2553	UGGAGCCU CUGAUGAG GCGGUUAGGC CGAA IGCGGAUC	1050	GAUCCGUC A GGGGUCCA	3829
2554	GAGGAGUG CUGAUGAG GCGGUUAGGC CGAA ICQCGUGG	1051	CGCAAGCC U CCAUCCUC	3830
2560	GAAGAGAU CUGAUGAG GCGGUUAGGC CGAA IAGCCGUC	1052	CAAGGUC C AUCCGUC	3831
2561	GGAAGAGA CUGAUGAG GCGGUUAGGC CGAA IAGCCGCU	1053	AGGCGUCC A UCCGUC	3832
2564	CGGAGAGA CUGAUGAG GCGGUUAGGC CGAA IAUAGAGC	1054	GUCCAUCC C UCCGACAG	3833
2565	GUAGAGAG CUGAUGAG GCGGUUAGGC CGAA IGAUGAGA	1055	GUCAUCC U CUGCAAGC	3834
2567	CAAGGUGG CUGAUGAG GCGGUUAGGC CGAA IAGGAGGG	1056	CAUCCUC U CCAAGGUG	3835
2569	AGGAGGCU CUGAUGAG GCGGUUAGGC CGAA IAGAGGAG	1057	AUCCGUC C AGGUGUC	3836
2570	GAGGAGCC CUGAUGAG GCGGUUAGGC CGAA IAGAGGGA	1058	GUCCGUC A GCGGUC	3837
2574	UGGAGAGC CUGAUGAG GCGGUUAGGC CGAA ICAGGAGG	1059	GUCAAGC U GCGGAGCA	3838
2577	GGGUGAGC CUGAUGAG GCGGUUAGGC CGAA ICAAGGUG	1060	CAAGGUC U CUGGAGCC	3839
2579	CAAGGUGC CUGAUGAG GCGGUUAGGC CGAA IAGGAGGC	1061	GCGGAGUC U GCGGAGG	3840
2582	GCAAGGCC CUGAUGAG GCGGUUAGGC CGAA ICAAGGCA	1062	UGGUGUC A GCGGAGC	3841
2585	GUAGGACA CUGAUGAG GCGGUUAGGC CGAA IGUGGAGA	1063	GUUGAGC C UGUGGAGC	3842
2586	CGUAGGAC CUGAUGAG GCGGUUAGGC CGAA ICGUGGAG	1064	GUUGAGC U GUGGAGG	3843
2591	GUUGGCGU CUGAUGAG GCGGUUAGGC CGAA ICAGGAGC	1065	GCGGAGC U AGGGGAG	3844
2600	GUUGGCGA CUGAUGAG GCGGUUAGGC CGAA IUGGCGGU	1066	AGGGGAG A UGGAAGAC	3845
2609	AAAGAGCU CUGAUGAG GCGGUUAGGC CGAA IUGGCGGA	1067	UGGAAGAC A AGGUGGU	3846
2613	CCGCAAAU CUGAUGAG GCGGUUAGGC CGAA ICUGGUGC	1068	GAAGAGC U GUUGGCGG	3847
2640	GCGGAGAG CUGAUGAG GCGGUUAGGC CGAA ICUGGUGC	1069	GAAGGAGC U GUGGUGC	3848
2643	AAAGGAGG CUGAUGAG GCGGUUAGGC CGAA ICAGGCGG	1070	GCGGAGC U CGGCGGU	3849
2645	CAAGGAGC CUGAUGAG GCGGUUAGGC CGAA IAGGAGCC	1071	GCGGAGC C UCGGUGG	3850
2646	CAAGGAGC CUGAUGAG GCGGUUAGGC CGAA IAGGAGCC	1072	GCGGAGC U CGGUGG	3851
2666	CAAGGAGC CUGAUGAG GCGGUUAGGC CGAA IAAAGGAG	1073	AGGAGUCC U UGUGGUG	3852
2677	AGGUGAGG CUGAUGAG GCGGUUAGGC CGAA IUGGAGGA	1074	UGGUGAGC A CGGAGCU	3853
2679	UGAGGUGA CUGAUGAG GCGGUUAGGC CGAA IUGGAGGC	1075	GGGAGAGC C UGAGGUGA	3854
2680	GUAGGUGG CUGAUGAG GCGGUUAGGC CGAA IGUGGAGC	1076	GGGAGAGC U CAGGUGA	3855
2682	GGGUGAGG CUGAUGAG GCGGUUAGGC CGAA IAGGAGGC	1077	GAGAGGUC A CGGAGG	3856
2684	GUUGGUGA CUGAUGAG GCGGUUAGGC CGAA IUGGAGG	1078	CAGGAGC C UGAGGAG	3857
2685	CGGUGGUG CUGAUGAG GCGGUUAGGC CGAA IGUGGAGG	1079	AGGAGAGC U CAGGAGG	3858
2687	CGGUGGUG CUGAUGAG GCGGUUAGGC CGAA IAGGUGAG	1080	CGGAGGUC A CGGAGG	3859
2689	GUUGGUGG CUGAUGAG GCGGUUAGGC CGAA IUGGAGG	1081	CAGGAGC C CAGGAG	3860
2690	GUUGGUGG CUGAUGAG GCGGUUAGGC CGAA IGUGGAGG	1082	AGGAGAGC C AGGAGG	3861
2691	GUUGGUGG CUGAUGAG GCGGUUAGGC CGAA IGUGGAGG	1083	CGGAGGUC A CGGAGG	3862
2701	UGAGGAGG CUGAUGAG GCGGUUAGGC CGAA IUGGAGG	1084	GGGAGGAG C UGAGGAG	3863
2702	CGAGGAGG CUGAUGAG GCGGUUAGGC CGAA IGUGGAGG	1085	CGGAGGAGC U UGAGGAG	3864

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2705	GGUCCUGA CUGAUGAG GCGUUAGGC CGAA IAAGGUUU	1086	AAACCUUC C UCAGGACC	3865
2706	GGGUCCUG CUGAUGAG GCGUUAGGC CGAA IGAAGGUU	1087	AAACCUUC U CAGGACCC	3866
2708	CAGGCUCC CUGAUGAG GCGUUAGGC CGAA IAGGAAGG	1088	CCUUCUC A GGACCCUG	3867
2713	CGGACGAG CUGAUGAG GCGUUAGGC CGAA IUCCUGAG	1089	CUCAAGAC C CUGGUCOG	3868
2714	UCCGACCA CUGAUGAG GCGUUAGGC CGAA IGUCUGA	1090	UCAGGACC C UGGUCGA	3869
2715	CUUGACCC CUGAUGAG GCGUUAGGC CGAA IGGUCUGG	1091	CAAGACCC U GGUCCGAG	3870
2720	GACACCUU CUGAUGAG GCGUUAGGC CGAA IACCAAGG	1092	CCUUGGUC C GAGGUGUC	3871
2729	AUACUCAG CUGAUGAG GCGUUAGGC CGAA IACACCUU	1093	GAAGGUC C CUGAGUAG	3872
2730	CAJACUCA CUGAUGAG GCGUUAGGC CGAA IGACACCU	1094	AGGUGUC C UGAGUAG	3873
2731	CCAUACUC CUGAUGAG GCGUUAGGC CGAA ICGACACC	1095	GGUGUC U GAGUAGG	3874
2741	CAACACCC CUGAUGAG GCGUUAGGC CGAA ICGAUACU	1096	AGUAGG U GCGUGUC	3875
2753	CUJCCCA CUGAUGAG GCGUUAGGC CGAA IUJCAACA	1097	UGUGAAC U UCGGAG	3876
2764	UJCAACAC CUGAUGAG GCGUUAGGC CGAA IUJUCUC	1098	CGGAGAC A GUGUGAA	3877
2774	UACAGGCA CUGAUGAG GCGUUAGGC CGAA IUJCAACA	1099	UGUGAAC U UCCUGUA	3878
2775	UJCAACAC CUGAUGAG GCGUUAGGC CGAA IAAGUJCA	1100	UGAACUC C CUGUAGAA	3879
2778	CUJCAACA CUGAUGAG GCGUUAGGC CGAA IGAAGUJCA	1101	GAACUC C UGUGAGAG	3880
2779	UCUJCAAC CUGAUGAG GCGUUAGGC CGAA ICGAAUJCA	1102	AAUJUC U GUGAGAG	3881
2794	CCACACAC CUGAUGAG GCGUUAGGC CGAA ICUCUCUC	1103	GAACAGC C CUGGUGG	3882
2795	GCCACCCA CUGAUGAG GCGUUAGGC CGAA ICGUCUCU	1104	ACGAGGC C UCGGUGG	3883
2796	UGCCACCC CUGAUGAG GCGUUAGGC CGAA ICGUCUC	1105	CGAGGCC U CGGUGGCA	3884
2804	AAAAACCC CUGAUGAG GCGUUAGGC CGAA ICACACCA	1106	UGGUGGC A CGGUCUCU	3885
2809	UGAACAAA CUGAUGAG GCGUUAGGC CGAA ICUGUCUC	1107	GGACGCC U UJUGUCA	3886
2817	CCCGCAUC CUGAUGAG GCGUUAGGC CGAA IAACAAAA	1108	UJUGUC A GAGGCCG	3887
2823	CUJCGCC CUGAUGAG GCGUUAGGC CGAA ICACUCGA	1109	UCAGAGC C CGGCCAG	3888
2827	AGGCCGUC CUGAUGAG GCGUUAGGC CGAA ICGCCCAU	1110	AGGCCGCC C CAGGCCUC	3889
2828	UAGGCCGUC CUGAUGAG GCGUUAGGC CGAA ICGGCCCA	1111	UGGCCGCC C AGGCCCUA	3890
2829	AUAGGCC CUGAUGAG GCGUUAGGC CGAA ICGGCCG	1112	GGGCCGCC A CGGCCUAU	3891
2834	GCGGAAUA CUGAUGAG GCGUUAGGC CGAA ICUGGCC	1113	CGACGCC C UAGGCCUC	3892
2835	AGCGAAUA CUGAUGAG GCGUUAGGC CGAA ICGGCCG	1114	CGACGCC U AUJGCCUC	3893
2840	GCACGAG CUGAUGAG GCGUUAGGC CGAA IAAUAGGC	1115	GCUGAUC C CCUGGUC	3894
2841	CGCACGAG CUGAUGAG GCGUUAGGC CGAA ICGAGAGG	1116	CCUAGUC C CUGGUCG	3895
2842	CGCACGCA CUGAUGAG GCGUUAGGC CGAA ICGAGUAG	1117	CUAGUC C UCGGCCG	3896
2843	GCGCCAC CUGAUGAG GCGUUAGGC CGAA ICGGAAUA	1118	GAUJGCC U CGGCCGC	3897
2852	CAGGACCA CUGAUGAG GCGUUAGGC CGAA ICGCCAC	1119	GGGCCGC C CGGCCUC	3898
2853	CGGACGAG CUGAUGAG GCGUUAGGC CGAA ICGGCCA	1120	GUGCCGC U CGGCCUGG	3899
2856	GAUCCAG CUGAUGAG GCGUUAGGC CGAA ICAGGCCG	1121	CGGCCGC U CGGCCUAU	3900
2859	CGGUAJCC CUGAUGAG GCGUUAGGC CGAA ICAGGCCG	1122	CGGCCGC U CGGACCC	3901
2866	AGGUCG CUGAUGAG GCGUUAGGC CGAA ICAGGCCG	1123	CGGUAJCC C CGGACCCU	3902
2867	CAAGGUC CUGAUGAG GCGUUAGGC CGAA IGUAJCCA	1124	UGGUAJCC C CGACCCUG	3903
2872	ACGCCAC CUGAUGAG GCGUUAGGC CGAA IUCCGCCU	1125	ACGCCAC C CUGGAGU	3904
2873	CAACGCCA CUGAUGAG GCGUUAGGC CGAA IGUCGCCG	1126	CGGCCAC C CGGAGGUC	3905
2874	GCACCCUC CUGAUGAG GCGUUAGGC CGAA ICGGCCG	1127	CGGCCAC U CGAGGUGC	3906
2883	AGUCCUC CUGAUGAG GCGUUAGGC CGAA ICACCCUC	1128	GGAGGUC A GAGGACU	3907
2891	GCUGGAG CUGAUGAG GCGUUAGGC CGAA ICGGCCU	1129	AGGCGAC U ACUCCAGC	3908
2894	AGAGCUC CUGAUGAG GCGUUAGGC CGAA IUGGCCU	1130	GGGACCA U CGAGCUAU	3909
2896	GAUAGCU CUGAUGAG GCGUUAGGC CGAA IAGUAGU	1131	GACUACU C AGCUAGC	3910
2897	GGAUAGC CUGAUGAG GCGUUAGGC CGAA IAGUAGU	1132	ACUACUC A GCUAGC	3911

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2900	CCGGGCAU CUGAUGAG GCGGUUAGGC CGAA ICUGGAGU	1133	ACUCCAGC U AUGCCCGG	3912
2905	GAGGUCCG CUGAUGAG GCGGUUAGGC CGAA ICAGAGCU	1134	AGCUAUGC C CGGACCUU	3913
2906	GGAGGUCC CUGAUGAG GCGGUUAGGC CGAA ICAGAGCU	1135	GUUAUGGC C GGACCUU	3914
2911	CUGAUGGA CUGAUGAG GCGGUUAGGC CGAA IUCCGGGC	1136	GGCCGGAC C UCCAUUAG	3915
2912	UCUGAUGG CUGAUGAG GCGGUUAGGC CGAA IGUCGGGC	1137	CCCGGACC U CCAUACAG	3916
2914	GUUCUGAU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1138	CGGACUUC C AUACAGAGC	3917
2915	GGUCUGAU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1139	GGACCUUC A UCAGAGGC	3918
2918	ACUGGCUU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1140	CCUCCAUU A GAGGCCAGU	3919
2923	GUAGAGAU CUGAUGAG GCGGUUAGGC CGAA ICUGGAGU	1141	AUCAGAGC C AGUCUAC	3920
2924	GGUGAGAU CUGAUGAG GCGGUUAGGC CGAA IGUCGGGC	1142	UCAGAGGC A GUUCUAC	3921
2928	UGAAGGUU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1143	AGGCAAGU U CAGGUUUA	3922
2930	GUUAGAGU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1144	CCAGUUCU A CUUUAAC	3923
2931	GGGUUGAA CUGAUGAG GCGGUUAGGC CGAA IUAGAGAU	1145	AGUUCUAC C UUCAAUCC	3924
2932	GCUGUUGA CUGAUGAG GCGGUUAGGC CGAA IGUGAGAU	1146	GUUCUACU U UCAACUCC	3925
2936	GUUGUGAU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1147	UCACCUUC A ACCCGGC	3926
2939	GAAGGUU CUGAUGAG GCGGUUAGGC CGAA IUUGAGAU	1148	CCUUCUAC C GCGGCUUC	3927
2945	AGGUUGAU CUGAUGAG GCGGUUAGGC CGAA IGCGGUGU	1149	ACCGCGGC U UCAAGGUU	3928
2948	CCAGGUU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1150	GGGCGUUC A AGGUUGGC	3929
2952	UGGUUGUU CUGAUGAG GCGGUUAGGC CGAA IGUGGUAU	1151	UUCAAUCC U GGGAGGAA	3930
2963	GGAGGUUA CUGAUGAG GCGGUUAGGC CGAA IUUGGUUU	1152	GGAGGUAU A UCGGUGGC	3931
2972	AAAGAGUU CUGAUGAG GCGGUUAGGC CGAA IGAGGUUA	1153	UGGUGUCC A AACUUCUU	3932
2976	CCGCAAAU CUGAUGAG GCGGUUAGGC CGAA IUUGGUUA	1154	UGGCAAAU U CUUUUGGC	3933
2977	GAUGGUUA CUGAUGAG GCGGUUAGGC CGAA IAGGUGGC	1155	GCAGAAUCC U UUGGGGUC	3934
2987	CAAGGUUA CUGAUGAG GCGGUUAGGC CGAA IAGGUGUA	1156	UUGGGGUC U UCGGCGUC	3935
2994	GAAGGUUU CUGAUGAG GCGGUUAGGC CGAA IGCGGUAU	1157	CUUGCGGC U GAAGGUGU	3936
3003	ACAGGUUU CUGAUGAG GCGGUUAGGC CGAA IAGGUGUU	1158	GAAUGGUC A CAGGUGGU	3937
3006	AAAGAGGU CUGAUGAG GCGGUUAGGC CGAA IUAGGUAU	1159	AGGUGUAC A GCGUGUUU	3938
3007	CAAGAAUA CUGAUGAG GCGGUUAGGC CGAA ICUGGAGU	1160	GUCAAGGC C UGUUUUGU	3939
3009	CCAAGAAU CUGAUGAG GCGGUUAGGC CGAA IGCGGUAU	1161	UCAGAGGC U GUUUGUGG	3940
3017	CCAGAUUU CUGAUGAG GCGGUUAGGC CGAA IAAAGAGG	1162	CCUGGUUU U GGAUUUGC	3941
3024	UGGUUGAU CUGAUGAG GCGGUUAGGC CGAA ICAGGUUU	1163	GGAUUUUG A GGUAGACA	3942
3031	UGGAGAUU CUGAUGAG GCGGUUAGGC CGAA IUUGGUUU	1164	AGGUAGAU A GCGGUGAG	3943
3035	CGGUUGUA CUGAUGAG GCGGUUAGGC CGAA ICUGGUUA	1165	UGAAGAGC C UCGAGAGG	3944
3036	CGGUUGUG CUGAUGAG GCGGUUAGGC CGAA IGCGGUUU	1166	GAAAGAGC U CAGAGAGG	3945
3039	CAGGUGUU CUGAUGAG GCGGUUAGGC CGAA IAGGUGGU	1167	ACAGGUGC C AGAGGUGG	3946
3039	ACAGGUGU CUGAUGAG GCGGUUAGGC CGAA IAGGUGUG	1168	CAGGUGGC A AGGUGUGU	3947
3050	GAUGUGUG CUGAUGAG GCGGUUAGGC CGAA ICAGGUUU	1169	GGUGUGGC A CCAAGAUU	3948
3051	UAAGUGUU CUGAUGAG GCGGUUAGGC CGAA IUGGAGAU	1170	GGUGGACU C AACAUUUA	3949
3053	GUAGAUUU CUGAUGAG GCGGUUAGGC CGAA IGCGGUAU	1171	UGUGGACU A ACAGUUAU	3950
3056	GUUGUAUA CUGAUGAG GCGGUUAGGC CGAA IUUGGUUU	1172	GCAGGAAU A UGUAGAGG	3951
3059	GAUGUGUU CUGAUGAG GCGGUUAGGC CGAA IAGGUGUG	1173	CCAGGAAU U ACAGAUU	3952
3063	GAGGAGUU CUGAUGAG GCGGUUAGGC CGAA ICAGGUUU	1174	ACAGUUAU A AGAUUUU	3953
3063	CAGGAGUA CUGAUGAG GCGGUUAGGC CGAA IAGGUGUU	1175	ACAGGAAU C UCGUGUGG	3954
3064	GCAGGAGU CUGAUGAG GCGGUUAGGC CGAA IAGGUGUG	1176	CAAGAUUU U CCGGUGGC	3955
3071	CGGAGGUA CUGAUGAG GCGGUUAGGC CGAA IAGGAGUU	1177	AGAUUUUU C UGUGGAGG	3956
3072	CGGAGGUA CUGAUGAG GCGGUUAGGC CGAA IAGGAGUU	1178	GAUGGUUU U CGUGGAGG	3957
3075	ACGCGUUC CUGAUGAG GCGGUUAGGC CGAA ICAGGAGG	1179	CGUGGUGC U GCAAGGUG	3958

Table IV

3078	UGUACGCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAGG	1180	CCUGCUGC	A	GGCGUACA	3959
3086	GUGAAACC	CUGAUGAG	GCCGUUAGGC	CGAA	IUACGCCU	1181	AGGCGUAC	A	GGUUUCAC	3960
3093	CACAUGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IAAACGUG	1182	CAGGJUUG	A	CGCAUGUG	3961
3097	AGCACACA	CUGAUGAG	GCCGUUAGGC	CGAA	ICGUGAAA	1183	UUUCACGC	A	UGUGUGGU	3962
3105	BGAUCUGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICACACAU	1184	AUGUGUGC	U	GCAGCUGC	3963
3108	AUGGAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCACA	1185	UGUGCUGC	A	GCUCGCAU	3964
3111	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCAGC	1186	GGUGCAGC	U	CCCAUUGC	3965
3113	AUGAAAGG	CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGCA	1187	UGCAUCUC	C	CAUUGCAU	3966
3114	GAUGAAAU	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUGC	1188	GCAGCUGC	C	AUUGCAUC	3967
3115	UGAUGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	ICGAGCUG	1189	CAGCUGGC	A	UUUGCAUC	3968
3116	GUUGUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAAUGGG	1190	CCCAUUGC	A	UCAGCAAG	3969
3117	AAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAAAU	1191	AUUGCAUC	A	GCAGCAAG	3970
3118	UCCAAATJ	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUGA	1192	UUGCAUC	A	AGUUGGGA	3971
3140	AAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGC	1193	GAAGCAAC	C	CCCAUUGC	3972
3141	AAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGC	1194	GAAGCAAC	C	CCCAUUGC	3973
3142	AAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGC	1195	GAAGCAAC	C	CCCAUUGC	3974
3143	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGC	1196	GAAGCAAC	C	CCCAUUGC	3975
3145	AGGAAAAA	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGC	1197	GAAGCAAC	C	CCCAUUGC	3976
3157	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAGUG	1198	GAAGCAAC	C	CCCAUUGC	3977
3159	UGAGUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAAAU	1199	AUUGCAUC	U	GCAGCAAG	3978
3161	GUUGUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUGGC	1200	UGUGCUGC	A	UCUGCAAG	3979
3164	GUUGUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGGC	1201	UGUGCUGC	U	UCUGCAAG	3980
3165	GUUGUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGGC	1202	UGUGCUGC	U	UCUGCAAG	3981
3170	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAAG	1203	UGUGCUGC	A	UCUGCAAG	3982
3175	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1204	GAAGCAAC	C	CCCAUUGC	3983
3176	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1205	GAAGCAAC	C	CCCAUUGC	3984
3178	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1206	GAAGCAAC	C	CCCAUUGC	3985
3179	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1207	GAAGCAAC	C	CCCAUUGC	3986
3180	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1208	GAAGCAAC	C	CCCAUUGC	3987
3182	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1209	GAAGCAAC	C	CCCAUUGC	3988
3185	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1210	GAAGCAAC	C	CCCAUUGC	3989
3188	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1211	GAAGCAAC	C	CCCAUUGC	3990
3190	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1212	GAAGCAAC	C	CCCAUUGC	3991
3191	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1213	GAAGCAAC	C	CCCAUUGC	3992
3194	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1214	GAAGCAAC	C	CCCAUUGC	3993
3195	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1215	GAAGCAAC	C	CCCAUUGC	3994
3202	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1216	GAAGCAAC	C	CCCAUUGC	3995
3203	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1217	GAAGCAAC	C	CCCAUUGC	3996
3211	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1218	GAAGCAAC	C	CCCAUUGC	3997
3222	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1219	GAAGCAAC	C	CCCAUUGC	3998
3229	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1220	GAAGCAAC	C	CCCAUUGC	3999
3230	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1221	GAAGCAAC	C	CCCAUUGC	4000
3233	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1222	GAAGCAAC	C	CCCAUUGC	4001
3241	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1223	GAAGCAAC	C	CCCAUUGC	4002
3245	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1224	GAAGCAAC	C	CCCAUUGC	4003
3246	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1225	GAAGCAAC	C	CCCAUUGC	4004
3247	GAAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGGC	1226	GAAGCAAC	C	CCCAUUGC	4005

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3249	CGGAGGGC CUGAUGAG GCGUUAAGG	CGAA IAGGGCCG	1227	CGGCCUC U GCCCUCG	4006
3252	CCUCGGAG CUGAUGAG GCGUUAAGG	CGAA ICAGAGGG	1228	CCUCUGG C CUCCGAGG	4007
3253	GCCUCGGA CUGAUGAG GCGUUAAGG	CGAA IGAGAGGG	1229	CCUCUGG C UCCGAGG	4008
3254	GCCUCGG CUGAUGAG GCGUUAAGG	CGAA IGAGAGG	1230	CCUCUGG U CCGAGGG	4009
3256	ACGGCCUC CUGAUGAG GCGUUAAGG	CGAA IAGAGAG	1231	CCUCUGG C GAGGCGU	4010
3262	CACUCGAC CUGAUGAG GCGUUAAGG	CGAA ICUCUGGA	1232	CCUCAGG C GUGGAGU	4011
3263	ACAGCCAC CUGAUGAG GCGUUAAGG	CGAA ICAGGCG	1233	CCUCUGG A GUGGCGU	4012
3272	GUGGCGAC CUGAUGAG GCGUUAAGG	CGAA ICAGUCG	1234	CCAGUGG U GUGGAGG	4013
3278	UCGUCGJ CUGAUGAG GCGUUAAGG	CGAA ICAGAGG	1235	CCUCUGG C ACCAAGGA	4014
3279	AGGUCGJ CUGAUGAG GCGUUAAGG	CGAA IAGAGAG	1236	CCUCUGG A CCAAGGAU	4015
3281	GAAGUCJ CUGAUGAG GCGUUAAGG	CGAA IAGGAGGA	1237	CCUCGAG C AAGGAGU	4016
3282	GAAGUGJ CUGAUGAG GCGUUAAGG	CGAA IAGGAGG	1238	CCUCGAG A AAGGAGG	4017
3284	AGGAGGA CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1239	CAAGAGG A UGCGAGG	4018
3290	CCGAGGA CUGAUGAG GCGUUAAGG	CGAA IAGUGAG	1240	AGGAGG C UGCGAGG	4019
3291	CCGAGGA CUGAUGAG GCGUUAAGG	CGAA IAGUGAG	1241	AGGAGG U GUGGAGG	4020
3294	UCAGGUG CUGAUGAG GCGUUAAGG	CGAA ICAGGAGU	1242	AGGAGG U CAGGAGG	4021
3296	AGGAGG CUGAUGAG GCGUUAAGG	CGAA IAGGAGGA	1243	UCGAGG A AGGAGG	4022
3300	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1244	CCGAGG U GAGGAGG	4023
3304	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1245	AAAGGAG U CAGGAGG	4024
3304	UCAGGGA CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1246	GAGGAGG A CCGGAGG	4025
3311	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1247	CCGAGG C GAGGAGG	4026
3312	CAAGGGA CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1248	AGGAGG A CCGGAGG	4027
3314	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1249	CCGAGG C CAGGAGG	4028
3320	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1250	CCGAGG U AGGAGG	4029
3327	CCAGGGA CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1251	CCAGGAG C AGGAGG	4030
3328	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1252	CCGAGG A CCGGAGG	4031
3330	ACCGGAG CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1253	CCGAGG U CCGGAGG	4032
3333	UCAGGGA CUGAUGAG GCGUUAAGG	CGAA IAGGAGGA	1254	UCGAGG C CCGGAGG	4033
3333	CCGAGG CUGAUGAG GCGUUAAGG	CGAA IAGGAGG	1255	CCAGGAG U CCGGAGG	4034
3340	CCGAGG CUGAUGAG GCGUUAAGG	CGAA IAGGAGG	1256	CCGAGG A CCGGAGG	4035
3342	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1257	CCGAGG U CAGGAGG	4036
3344	CCGAGG CUGAUGAG GCGUUAAGG	CGAA IAGGAGG	1258	CCGAGG A CAGGAGG	4037
3349	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1259	CCAGGAG A CCGGAGG	4038
3352	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1260	AGGAGG C CAGGAGG	4039
3353	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1261	CCAGGAG C AGGAGG	4040
3354	CCGAGG CUGAUGAG GCGUUAAGG	CGAA IAGGAGG	1262	CCAGGAG A CAGGAGG	4041
3360	GAAGGAG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1263	CCAGGAG A CCGGAGG	4042
3363	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1264	GAAGGAG U GAGGAGG	4043
3375	UCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1265	CCGAGG U CCGGAGG	4044
3377	CCGAGG CUGAUGAG GCGUUAAGG	CGAA IAGGAGG	1266	CCAGGAG C CCGGAGG	4045
3378	CCGAGG CUGAUGAG GCGUUAAGG	CGAA IAGGAGG	1267	GAAGGAG C CCGGAGG	4046
3390	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1268	GAAGGAG U GAGGAGG	4047
3394	UCGAGG CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1269	AGGAGG U CCGGAGG	4048
3397	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1270	CCAGGAG C CCGGAGG	4049
3398	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1271	UCGAGG C CCGGAGG	4050
3399	CCGAGG CUGAUGAG GCGUUAAGG	CGAA ICAGGAG	1272	GAAGGAG U GAGGAGG	4051
3406	UCGAGG CUGAUGAG GCGUUAAGG	CGAA ICUCUGG	1273	CCGAGG C CAGGAGG	4052



Table IV

3409	GGGUUGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	ICGGCUC	1274	GAGGCGGC	A	GCCAACCC	4053
3412	GCGGGGUU	CU3AUGAG	GGCGUUAAGGC	CGAA	ICUGC3GC	1275	GCGGCGGC	C	AACCGGC	4054
3413	UGCGGGGU	CU3AUGAG	GGCGUUAAGGC	CGAA	ICUGCGG	1276	CGCGAGGC	A	AACCGGC	4055
3416	CAGUGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGGCGG	1277	CAACCGGC	C	CGGCGGC	4056
3417	GCAUGGCG	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGGCGG	1278	AGCGAGGC	C	GCGCGGC	4057
3421	GAGGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	ICCGGCG	1279	AACCGGC	A	CUGCGGC	4058
3423	CU3AAGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGGCGG	1280	CGCGAGGC	U	GCGCGGC	4059
3426	AGUGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	ICAGCGG	1281	GGCGAGGC	C	CUGCGGC	4060
3427	AAGUGCG	CU3AUGAG	GGCGUUAAGGC	CGAA	IGAGCGG	1282	CGCGAGGC	C	UAGCGGC	4061
3428	GAGUGCG	CU3AUGAG	GGCGUUAAGGC	CGAA	IGAGCGG	1283	CGCGAGGC	U	CAGCGGC	4062
3430	UUGAGCG	CU3AUGAG	GGCGUUAAGGC	CGAA	IAAGCGG	1284	CUGCGGC	A	GAGCGGC	4063
3434	GGUGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGGCGG	1285	CGCGAGGC	U	UAGCGGC	4064
3437	GAUGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	IAAGCGG	1286	CAGCGGC	A	AGCGGC	4065
3442	UGAGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGGCGG	1287	UAGCGGC	C	AUGCGGC	4066
3443	GUAGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	IGUGCGG	1288	UAGCGGC	A	UAGCGGC	4067
3446	UAGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IAUGCGG	1289	AGCGGC	U	UAGCGGC	4068
3447	AUGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGAUGCG	1290	GAGCGGC	U	GAGCGGC	4069
3452	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1291	UAGCGGC	U	GAGCGGC	4070
3459	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	ICCGGC	1292	CUGCGGC	C	AACCGGC	4071
3460	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1293	UAGCGGC	A	CGCGGC	4072
3462	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1294	AGCGGC	C	CGCGGC	4073
3463	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGUGGC	1295	UGCGGC	C	CGCGGC	4074
3466	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1296	CGCGGC	C	CAGCGGC	4075
3467	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1297	CGCGGC	C	AGCGGC	4076
3468	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1298	AGCGGC	A	CAGCGGC	4077
3470	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1299	CGCGGC	A	CGCGGC	4078
3473	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	ICCGGC	1300	CGCGGC	C	AGCGGC	4079
3474	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1301	CGCGGC	A	CGCGGC	4080
3478	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	ICCGGC	1302	AGCGGC	C	GAGCGGC	4081
3485	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1303	CGCGGC	A	GAGCGGC	4082
3489	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1304	GAGCGGC	A	CAGCGGC	4083
3491	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1305	CGCGGC	C	AGCGGC	4084
3492	AGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1306	CAGCGGC	A	GAGCGGC	4085
3495	GAGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1307	AGCGGC	A	GCGCGGC	4086
3498	CGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IUGCGGC	1308	CGCGGC	C	UAGCGGC	4087
3499	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1309	CGCGGC	C	UAGCGGC	4088
3500	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1310	AGCGGC	U	GCGCGGC	4089
3504	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IAAGCGG	1311	GGCGGC	A	GCGCGGC	4090
3508	GAAGCGG	CU3AUGAG	GGCGUUAAGGC	CGAA	IGAGCGG	1312	UGCGGC	C	GGCGGC	4091
3513	GAGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	ICCGGC	1313	CGCGGC	U	CGCGGC	4092
3515	UGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IAAGCGG	1314	CGCGGC	U	AGCGGC	4093
3521	CGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IAAGCGG	1315	UGCGGC	C	CAGCGGC	4094
3522	CGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGAGCGG	1316	CGCGGC	C	AGCGGC	4095
3523	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGAGCGG	1317	UAGCGGC	A	GGCGGC	4096
3540	GGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	ICCGGC	1318	GGCGGC	C	CAGCGGC	4097
3541	CGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1319	GGCGGC	C	AGCGGC	4098
3542	CGCGGC	CU3AUGAG	GGCGUUAAGGC	CGAA	IGCGGC	1320	GGCGGC	A	CAGCGGC	4099

Table IV

3544	GCGGUGGG CUGAUGAG GCGGUUAGGC CGAA IUGGJGCG	1321	CGGCCAC A CCCAGGCC	4100
3546	CGGGGCG CUGAUGAG GCGGUUAGGC CGAA IUGJGJGCG	1322	GCCCCAC C CAGGCCCG	4101
3547	GCGGGGCG CUGAUGAG GCGGUUAGGC CGAA IUGJGJGCG	1323	CCCCAC C A GCGCGC	4102
3548	UGCGGGCG CUGAUGAG GCGGUUAGGC CGAA IUGJGJGCG	1324	CCACAC C A GCGCGC	4103
3552	GCGGUGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1325	ACCCAGGC C CCGACCGC	4104
3553	AGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1326	CCAGGCG C GCGACCGC	4105
3556	CCCAJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1327	AGCGCGC A CGCGJGCG	4106
3558	CUCCAGC CUGAUGAG GCGGUUAGGC CGAA IUGJGJGCG	1328	CGCGJGCG C CGCGJGCG	4107
3561	AGACJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1329	CGCAJGCG U CGCGJGCG	4108
3569	CAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1330	UGCGJGCG U CGCGJGCG	4109
3575	CUJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1331	UGCGJGCG C CGCGJGCG	4110
3576	ACUJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1332	UGCGJGCG U CGCGJGCG	4111
3592	CAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1333	UGCGJGCG C CGCGJGCG	4112
3598	GACJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1334	GCGJGCG C CGCGJGCG	4113
3599	GAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1335	CGJGCGCG U CGCGJGCG	4114
3602	GAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1336	AGCGCGCG A CGCGJGCG	4115
3607	CUJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1337	UGCGJGCG C CGCGJGCG	4116
3611	CAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1338	UGCGJGCG U CGCGJGCG	4117
3618	GAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1339	UGCGJGCG U CGCGJGCG	4118
3626	CUJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1340	UGCGJGCG C CGCGJGCG	4119
3630	CAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1341	UGCGJGCG U CGCGJGCG	4120
3636	CUJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1342	GCGJGCG C CGCGJGCG	4121
3637	ACUJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1343	UGCGJGCG U CGCGJGCG	4122
3649	CUJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1344	CGJGCGCG C CGCGJGCG	4123
3650	CGJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1345	GAJGCGCG A CGCGJGCG	4124
3653	CAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1346	UGCGJGCG C CGCGJGCG	4125
3654	UGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1347	UGCGJGCG A CGCGJGCG	4126
3660	GAJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1348	CGCGJGCG U CGCGJGCG	4127
3663	GCGJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1349	UGCGJGCG C CGCGJGCG	4128
3669	AGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1350	GAJGCGCG A CGCGJGCG	4129
3672	GCGJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1351	UGCGJGCG A CGCGJGCG	4130
3674	AGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1352	UGCGJGCG A CGCGJGCG	4131
3676	AGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1353	CGCGJGCG C CGCGJGCG	4132
3677	AGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1354	AGCGJGCG U CGCGJGCG	4133
3680	GCGJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1355	ACCGJGCG C CGCGJGCG	4134
3684	GCGJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1356	CGCGJGCG U CGCGJGCG	4135
3687	UGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1357	CGCGJGCG A CGCGJGCG	4136
3689	UGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1358	CGCGJGCG U CGCGJGCG	4137
3692	GCGJGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1359	UGCGJGCG C CGCGJGCG	4138
3693	AGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1360	UGCGJGCG C CGCGJGCG	4139
3694	AGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1361	CGCGJGCG C CGCGJGCG	4140
3695	CGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1362	ACCGJGCG A CGCGJGCG	4141
3697	CGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1363	CGCGJGCG A CGCGJGCG	4142
3701	CGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1364	CGCGJGCG U CGCGJGCG	4143
3707	CGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1365	CGCGJGCG U CGCGJGCG	4144
3712	CGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1366	CGCGJGCG U CGCGJGCG	4145
3714	CGCGJGCG CUGAUGAG GCGGUUAGGC CGAA ICGJGJGCG	1367	CGCGJGCG C CGCGJGCG	4146

Table IV

3715	CCCTGGGG CUGAUGAG GCGGUUAGG	CGAA IGAGGCGA	1368	UUGGCUCC A CCCCAGGG	4147
3717	GGCCCGGG CUGAUGAG GCGGUUAGG	CGAA IUGGAGCG	1369	GGCUCCAC C CCAGGGCC	4148
3718	UGGCCCUG CUGAUGAG GCGGUUAGG	CGAA IGUGGAGC	1370	GGUCCACC C CAGGGGCA	4149
3719	CUGGCCCU CUGAUGAG GCGGUUAGG	CGAA IGGGGAAG	1371	GUCCACCC C AGGGGCA	4150
3720	GCUGGCCC CUGAUGAG GCGGUUAGG	CGAA IGGGUGGA	1372	UCCACCCC A GGGGCA	4151
3725	GAAAAACU CUGAUGAG GCGGUUAGG	CGAA ICGUGG	1373	CCAGGGCC C AGGUUUC	4152
3726	GGAAAAAG CUGAUGAG GCGGUUAGG	CGAA ICGGUG	1374	CCAGGGCC A GUUUUUC	4153
3729	UGAGGAAA CUGAUGAG GCGGUUAGG	CGAA ICGGCG	1375	GGGGGAG U UUUUUCA	4154
3734	CCUGGUGA CUGAUGAG GCGGUUAGG	CGAA IAAAAACU	1376	AGGUUUC C UCCACAG	4155
3735	UCCUGGAG CUGAUGAG GCGGUUAGG	CGAA IGAAAAAG	1377	GUUUUUC C UCCACAG	4156
3737	GUCCGUG CUGAUGAG GCGGUUAGG	CGAA IAGAAAA	1378	UUUUUUC A CCAGGAG	4157
3739	GGGCUUCU CUGAUGAG GCGGUUAGG	CGAA IUGAGGA	1379	UUUUUUC C AGGAGG	4158
3740	CGGCUUCU CUGAUGAG GCGGUUAGG	CGAA IGUGGGA	1380	GUUUUUC A GAGGGG	4159
3746	GGAAGGCG CUGAUGAG GCGGUUAGG	CGAA ICGUGG	1381	CGAGGAG C GGGGUUC	4160
3747	UGGAAACU CUGAUGAG GCGGUUAGG	CGAA ICGGUG	1382	CGAGGAG C GGGGUUC	4161
3751	GGAAGGGA CUGAUGAG GCGGUUAGG	CGAA ICGGUG	1383	AGGGGAG C UCCACUC	4162
3754	UGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IAGGGG	1384	CGGGGAG C AGGUUC	4163
3755	GUUGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGG	1385	CGGGGAG C GUUUUC	4164
3757	AUGUGGAG CUGAUGAG GCGGUUAGG	CGAA IUGGAG	1386	GUUUUUC C UCCACAG	4165
3759	GUUGGUG CUGAUGAG GCGGUUAGG	CGAA IAGGGA	1387	UUGGAG C CCACAG	4166
3760	GUUGGUG CUGAUGAG GCGGUUAGG	CGAA IGAGGGA	1388	GUUGGAG C CACAGG	4167
3761	UCCUAGG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1389	CCAGGAG C AGAGGA	4168
3762	GUUGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1390	CAGGAG C CAGGAG	4169
3764	GUUGGAG CUGAUGAG GCGGUUAGG	CGAA IUGGAG	1391	GUUGGAG A UAGGAG	4170
3776	GUUGGAG CUGAUGAG GCGGUUAGG	CGAA IAGGAG	1392	GAGGAG C AUGGAG	4171
3777	GUUGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1393	AAGGAG C UCCACAG	4172
3780	GAGGAG CUGAUGAG GCGGUUAGG	CGAA IAGGAG	1394	AGGAG C CAGGAG	4173
3781	CGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1395	GUUGGAG C CAGGAG	4174
3782	CGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1396	GUUGGAG C CAGGAG	4175
3783	CGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1397	CGAGGAG A GAGGAG	4176
3791	UGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1398	AGGAG C AUGGAG	4177
3792	GUAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1399	GAGGAG A UGGGAG	4178
3799	GCGAGGAG CUGAUGAG GCGGUUAGG	CGAA IAGGAG	1400	GAGGAG A CCGGAG	4179
3801	GCGAGGAG CUGAUGAG GCGGUUAGG	CGAA IUGGAG	1401	GUUGGAG C CCGGAG	4180
3802	AGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1402	GGGAG C CCGGAG	4181
3803	CAGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1403	GUUGGAG C CCGGAG	4182
3804	GAGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1404	GUUGGAG C CCGGAG	4183
3808	GAGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1405	GGGAG C CCGGAG	4184
3809	GAGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1406	GGGAG C CCGGAG	4185
3810	AGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1407	GGGAG C CCGGAG	4186
3813	GAAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1408	GGGAG C CCGGAG	4187
3814	GAAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1409	GGGAG C CCGGAG	4188
3815	GAAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1410	GGGAG C CCGGAG	4189
3817	AAAGGAG CUGAUGAG GCGGUUAGG	CGAA IAGGAG	1411	GUUGGAG C UGGGAG	4190
3818	GAGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1412	GGGAG C UGGGAG	4191
3823	GGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1413	GGGAG C UGGGAG	4192
3824	GCGGAGGAG CUGAUGAG GCGGUUAGG	CGAA IGAGGAG	1414	GGGAG C UGGGAG	4193

Table IV

3827	GUGGGGGU CUGAUGAG GCCGUUAGGC CGAA IAAGGCAA	1415	UUGCCUUC C ACCCCAC	4194
3828	GUGGGGGG CUGAUGAG GCCGUUAGGC CGAA IGAAGGCA	1416	UGCCUUC A CCCCCAC	4195
3830	AUGGUGGG CUGAUGAG GCCGUUAGGC CGAA IUGGAAAG	1417	CCUCCAC C CCCCACU	4196
3831	GAUGGUGG CUGAUGAG GCCGUUAGGC CGAA IGUGGAAAG	1418	CUCCAC C CCCCACU	4197
3832	GAUGGUGG CUGAUGAG GCCGUUAGGC CGAA IGUGGAAAG	1419	UCCAC C CCCCACU	4198
3833	UGGAUGG CUGAUGAG GCCGUUAGGC CGAA IGUGGAAAG	1420	UCCAC C CCCCACU	4199
3834	UGGAUGG CUGAUGAG GCCGUUAGGC CGAA IGUGGAAAG	1421	CCAC C CCCCACU	4200
3836	AUGGUGG CUGAUGAG GCCGUUAGGC CGAA IUGGAAAG	1422	ACCCAC C CCCCACU	4201
3837	CACUGG CUGAUGAG GCCGUUAGGC CGAA IGUGGAAAG	1423	CCCCAC A UCCAGGUG	4202
3840	CUCCAC CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1424	CCAC C CCCCACU	4203
3841	CUCCAC CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1425	CAC C CCCCACU	4204
3851	CUCCAC CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1426	UGGAG C CCCCACU	4205
3857	CUCCAC CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1427	UGGAG C CCCCACU	4206
3853	CUCCAC CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1428	GA C CCCCACU	4207
3863	CUCCAC CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1429	AAAG C CCCCACU	4208
3864	AGCUG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1430	GAAG C CCCCACU	4209
3865	AGCUG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1431	AAAG C CCCCACU	4210
3870	AUGCUG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1432	UGGAG C CCCCACU	4211
3874	AAAUUG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1433	GGAG C CCCCACU	4212
3891	AGCUG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1434	GGAG C CCCCACU	4213
3892	CACUG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1435	AGCUG C CCCCACU	4214
3901	GUUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1436	AGCUG C CCCCACU	4215
3902	UGUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1437	GGUG C CCCCACU	4216
3904	CUUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1438	GGUG C CCCCACU	4217
3909	CUUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1439	CCUG C CCCCACU	4218
3911	UCUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1440	CUUG C CCCCACU	4219
3921	AGUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1441	GGAG C CCCCACU	4220
3922	CAUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1442	GAAG C CCCCACU	4221
3923	CCAGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1443	GAAG C CCCCACU	4222
3926	CAUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1444	GAAG C CCCCACU	4223
3928	CCAGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1445	CCUG C CCCCACU	4224
3929	CCAGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1446	CCUG C CCCCACU	4225
3941	ACAGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1447	UGGAG C CCCCACU	4226
3942	GAAGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1448	GGAG C CCCCACU	4227
3943	UGAGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1449	GGAG C CCCCACU	4228
3951	CCCCAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1450	UGGAG C CCCCACU	4229
3963	ACUGAG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1451	GGAG C CCCCACU	4230
3984	AUAUUG CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1452	UAAAU C CCCCACU	4231
4002	UUCAAA CUGAUGAG GCCGUUAGGC CGAA IAUUGG	1453	AGUUG C CCCCACU	4232

Stem Length = 8. Core Sequence = CUGAUGAG GCCGUUAGGC CGAA. I = Inosine nucleotide

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp); Nakamura *et al.*, Science 277 (5328), 955-959 (1997)

Table V

[illegible]

400.019

[illegible]

Table V

436	CCACACACCCG G AAGCA	1513	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4292
440	CACGCGACCC G AAGCA	1514	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4293
443	GGGACCCGAC G CACCG	1515	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4294
446	CCGACCCGAC G CAGCG	1516	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4295
472	CGGCGCGCGG G CUGCG	1517	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4296
475	GGGCGCGCGG G CUGCG	1518	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4297
478	GGGCGCGCGG G CUGCG	1519	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4298
480	CGGCGCGCGG G CUGCG	1520	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4299
483	CGGCGCGCGG G CUGCG	1521	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4300
491	CGGCGCGCGG G AAGCA	1522	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4301
494	CGGCGCGCGG G AAGCA	1523	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4302
497	CGGCGCGCGG G CUGCG	1524	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4303
511	UGGUGACCG G CUGCG	1525	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4304
519	CGGCGCGCGG G CUGCG	1526	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4305
522	CGGCGCGCGG G CUGCG	1527	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4306
524	CGGCGCGCGG G CUGCG	1528	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4307
526	CGGCGCGCGG G CUGCG	1529	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4308
533	CGGCGCGCGG G CUGCG	1530	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4309
535	CGGCGCGCGG G CUGCG	1531	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4310
552	CGGCGCGCGG G CUGCG	1532	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4311
554	CGGCGCGCGG G CUGCG	1533	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4312
565	CGGCGCGCGG G CUGCG	1534	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4313
567	CGGCGCGCGG G CUGCG	1535	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4314
574	CGGCGCGCGG G CUGCG	1536	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4315
577	CGGCGCGCGG G CUGCG	1537	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4316
580	CGGCGCGCGG G CUGCG	1538	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4317
593	CGGCGCGCGG G CUGCG	1539	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4318
596	CGGCGCGCGG G CUGCG	1540	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4319
616	CGGCGCGCGG G CUGCG	1541	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4320
623	CGGCGCGCGG G CUGCG	1542	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4321
636	CGGCGCGCGG G AAGCA	1543	UGGCU UGAUGGAAAGACUAUGGCGG ACGGUGUUGG	4322

Table V

651	GGUGUGGGAU G UGAAC	1544	GUUUG UGAUGGACUACUUAUGGUG AUUCCAGAGG	4323
653	UCUUGGAGUG G AAGUG	1545	CUUUU UGAUGGACUACUUAUGGUG GCAUUGGAGA	4324
703	CUUGGAGGCU G CCAAG	1546	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4325
716	AGUGUGGUGU G UGAAG	1547	CUUGG UGAUGGACUACUUAUGGUG AUUUGGAGGU	4326
718	CUUGGAGGUG G AAGAG	1548	CUUUU UGAUGGACUACUUAUGGUG GCAUUGGAGA	4327
726	CGGAGGAGU G CCGAG	1549	CUUGG UGAUGGACUACUUAUGGUG GCUUGGAGGU	4328
737	CGGAGGAGU G CCGAG	1550	CUUGG UGAUGGACUACUUAUGGUG AUUUGGAGGU	4329
744	AGUGGAGGUG G AAGAG	1551	CUUUU UGAUGGACUACUUAUGGUG GCAUUGGAGA	4330
751	GGGAGGAGU G CCGAG	1552	CUUGG UGAUGGACUACUUAUGGUG AUUUGGAGGU	4331
757	GUUGGAGGUG G CCAAG	1553	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4332
779	CAUGGAGGUG G CCAAG	1554	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4333
782	GUUGGAGGUG G CCAAG	1555	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4334
788	GUUGGAGGUG G CCAAG	1556	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4335
802	GUUGGAGGUG G CCAAG	1557	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4336
841	GUUGGAGGUG G CCAAG	1558	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4337
850	GUUGGAGGUG G CCAAG	1559	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4338
854	GUUGGAGGUG G CCAAG	1560	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4339
857	GUUGGAGGUG G CCAAG	1561	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4340
859	GUUGGAGGUG G CCAAG	1562	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4341
874	GUUGGAGGUG G CCAAG	1563	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4342
881	GUUGGAGGUG G CCAAG	1564	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4343
890	GUUGGAGGUG G CCAAG	1565	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4344
895	GUUGGAGGUG G CCAAG	1566	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4345
917	GUUGGAGGUG G CCAAG	1567	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4346
919	GUUGGAGGUG G CCAAG	1568	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4347
931	GUUGGAGGUG G CCAAG	1569	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4348
933	GUUGGAGGUG G CCAAG	1570	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4349
957	GUUGGAGGUG G CCAAG	1571	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4350
968	GUUGGAGGUG G CCAAG	1572	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4351
988	GUUGGAGGUG G CCAAG	1573	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4352
1012	GUUGGAGGUG G CCAAG	1574	GUUGG UGAUGGACUACUUAUGGUG AGGUGGAGGG	4353



Table V

1017	GACACGCGGCU G UCGCC	1575	GAGAA UGAUGGACUACUAGCGCG AGGCGCGGUC	4354
1027	GUCCGCGCGU G UACGC	1576	GAGAA UGAUGGACUACUAGCGCG AGCGCGCGAC	4355
1031	CUUGGCGUAC G CCGAG	1577	CUUGG UGAUGGACUACUAGCGCG GACACCGGG	4356
1034	CGUUAAGCG G AGACC	1578	CGUUC UGAUGGACUACUAGCGCG GAGUACACC	4357
1064	GUUUAAGCG G ACAGG	1579	GUUUC UGAUGGACUACUAGCGCG GCUAAGGAG	4358
1078	AGGAGCGCGU G CCGGC	1580	AGGAG UGAUGGACUACUAGCGCG AGGCGCGUCU	4359
1105	UCAGUUGCU G AGGCG	1581	UAGAU UGAUGGACUACUAGCGCG AAGAGCGUGA	4360
1117	GACCGCGCGU G ACUGG	1582	CCAGU UGAUGGACUACUAGCGCG AGCGCGGCG	4361
1124	CGUGGCGCG G CUGCG	1583	CGAGG UGAUGGACUACUAGCGCG GACAGCGG	4362
1171	GGCGGCGCGU G CCGAG	1584	CGUGG UGAUGGACUACUAGCGCG AUCAGCGGCG	4363
1185	GGGAGCGCG G CAGCG	1585	AGGCG UGAUGGACUACUAGCGCG GAGAGCGCG	4364
1192	CGCGGCGCGU G CCGCG	1586	CGAGG UGAUGGACUACUAGCGCG AGCGCGGCG	4365
1197	AGGUGCGCG G CCGCG	1587	CGAGG UGAUGGACUACUAGCGCG GCGCGACCGU	4366
1201	UGCGGCGCGU G CCGCA	1588	CGAGG UGAUGGACUACUAGCGCG AGCGCGGCGA	4367
1209	CGCGGCGCG G CUACU	1589	AGUAG UGAUGGACUACUAGCGCG GCGCGGCGAG	4368
1222	ACUGGCGCGU G CCGCG	1590	CGAGG UGAUGGACUACUAGCGCG AUUGGCGAGU	4369
1231	UGCGGCGCGU G UGCGU	1591	AGGAA UGAUGGACUACUAGCGCG AGCGCGGCGA	4370
1243	UUCGCGCGU G CUGCG	1592	CGAGG UGAUGGACUACUAGCGCG AGCGCGGCGA	4371
1256	UGGAGCGCG G CCGAG	1593	CGUGG UGAUGGACUACUAGCGCG GCGCGGCGAG	4372
1258	GGAGCGCGU G CAGCG	1594	CGUGG UGAUGGACUACUAGCGCG GCGCGGCGAG	4373
1263	CAGCGCGCGU G CCGCG	1595	CGAGG UGAUGGACUACUAGCGCG AGCGCGGCGU	4374
1275	CGUAGCGCGU G CUGCG	1596	AGGAG UGAUGGACUACUAGCGCG AGCGCGGCGU	4375
1288	UCCGCGCGU G CAGCG	1597	CGAGG UGAUGGACUACUAGCGCG GCGCGGCGAG	4376
1293	AGGCGCGCGU G CCGCG	1598	CGAGG UGAUGGACUACUAGCGCG AGCGCGGCGU	4377
1297	CGCGCGCGU G CUGCG	1599	CGAGG UGAUGGACUACUAGCGCG GCGCGGCGAG	4378
1300	ACUGGCGCGU G CCGAG	1600	CGUGG UGAUGGACUACUAGCGCG AGCGCGGCGU	4379
1302	UGCGGCGCGU G AGCGG	1601	CGAGG UGAUGGACUACUAGCGCG GCGCGGCGAG	4380
1307	CGUGGCGCGU G CCGCG	1602	AGGAG UGAUGGACUACUAGCGCG AGCGCGGCGU	4381
1328	AGGCGCGCGU G UGCGU	1603	AGGAG UGAUGGACUACUAGCGCG AGCGCGGCGU	4382
1332	CGCGGCGCGU G UGCGU	1604	CGAGG UGAUGGACUACUAGCGCG AGCGCGGCGU	4383
1334	CGCGGCGCGU G CCGCG	1605	CGAGG UGAUGGACUACUAGCGCG AGCGCGGCGU	4384

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1356	CCAGGCGGCGU G UGGCG	1606	CGTCA UGAUAGACUAGUGGCG AGAGCGCGCGG	4385
1370	GGCGCGCGCG G AGGAG	1607	CUUUG UAAUAGAUAGUAGUGGCG GAAAGCGCGCG	4386
1395	GACCGCGCGCG G CUUGG	1608	CCAGG UGAUAGGACUAGUAGUGGCG GACGCGCGCGG	4387
1402	GUUUGCGGCGU G CAGGU	1609	AGTUG UGAUAGGACUAGUAGUGGCG ACCAGCGCGAC	4388
1411	UAGGCGGCGCG G CGGCG	1610	CGUAG UGAUAGGACUAGUAGUGGCG AGCGCGCGCGA	4389
1413	CAGCGCGCGCG G CAGCG	1611	CGUAG UGAUAGGACUAGUAGUGGCG GAGCGAGCGG	4390
1438	CCUGCGCGCGU G UAGCG	1612	CGGUA UGAUAGGACUAGUAGUGGCG ACCUGCGCGG	4391
1450	AGCGCGCGCGU G CGGCG	1613	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4392
1452	GUUGCGCGCGU G CGGCG	1614	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4393
1462	GUUGCGCGCGU G CGGCG	1615	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4394
1464	GUUGCGCGCGU G CGGCG	1616	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4395
1474	GUUGCGCGCGU G CGGCG	1617	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4396
1505	CAGCGCGCGCG G AAGCG	1618	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4397
1509	CAGCGCGCGCG G AAGCG	1619	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4398
1512	AGCGCGCGCG G CUGCG	1620	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4399
1556	GUUGCGCGCGU G CGGCG	1621	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4400
1567	GUUGCGCGCGU G CGGCG	1622	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4401
1570	GUUGCGCGCGU G CGGCG	1623	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4402
1579	GUUGCGCGCGU G CGGCG	1624	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4403
1591	GUUGCGCGCGU G CGGCG	1625	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4404
1597	GUUGCGCGCGU G CGGCG	1626	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4405
1605	GUUGCGCGCGU G CGGCG	1627	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4406
1607	GUUGCGCGCGU G CGGCG	1628	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4407
1615	GUUGCGCGCGU G CGGCG	1629	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4408
1617	GUUGCGCGCGU G CGGCG	1630	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4409
1638	GUUGCGCGCGU G CGGCG	1631	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4410
1640	GUUGCGCGCGU G CGGCG	1632	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4411
1642	GUUGCGCGCGU G CGGCG	1633	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4412
1663	GUUGCGCGCGU G CGGCG	1634	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4413
1667	GUUGCGCGCGU G CGGCG	1635	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4414
1690	GUUGCGCGCGU G CGGCG	1636	CGGUG UGAUAGGACUAGUAGUGGCG AGGAGCGCGG	4415

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1699	UCCACUUGGCU G ADEAG	1637	CUCAU UGATGAGAGGACUAGGAGG AGGACAGUGCA	4416
1702	ACUGGCUUAGU G AGUGU	1638	ACACU UGAGGAGAGGACUAGGAGG AGGACAGUGU	4417
1706	GUUACUAGAGU G UGUAC	1639	GUACA UGAGGAGAGGACUAGGAGG ACUCACUAGC	4418
1708	UGAUGAGAGU G UAGGU	1640	AGGUA UGAGGAGAGGACUAGGAGG ACACUCAUCA	4419
1718	GUAGGAGAGU G AGGUG	1641	UAGGU UGAGGAGAGGACUAGGAGG GAGGACGUGAC	4420
1723	UGGUGAGAGU G CUCAG	1642	CUAGG UGAGGAGAGGACUAGGAGG AGGUGAGGGA	4421
1742	UUUUCUUUAGU G UGAGG	1643	GUAGA UGAGGAGAGGACUAGGAGG AUAAAAAGAAA	4422
1793	CGGAGAGAGU G UGAGG	1644	CUAGA UGAGGAGAGGACUAGGAGG ACUCUUGGCGG	4423
1807	GGAGGAGAGU G CAGAG	1645	CUUGG UGAGGAGAGGACUAGGAGG AACUGGCUCC	4424
1834	GACAGGAGAGU G AAGAG	1646	CUUUG UGAGGAGAGGACUAGGAGG AAGGAGGUGG	4425
1843	UGAGGAGAGU G CAGGU	1647	AGGAG UGAGGAGAGGACUAGGAGG AGGUGGUGCA	4426
1849	GUAGGAGAGU G CUGGA	1648	GUUGG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4427
1858	UGGGGAGAGU G UUGGA	1649	UGGGA UGAGGAGAGGACUAGGAGG AGGUGGAGCA	4428
1892	AGGAGGAGAGU G CUGUG	1650	GUAGG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4429
1903	GGGUGGAGAGU G CUGAG	1651	GUAGG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4430
1906	CGGAGGAGAGU G AAGUG	1652	GAAGU UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4431
1920	UGGAGGAGAGU G CUGCA	1653	UGAGG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4432
1937	CGGAGGAGAGU G AGGAG	1654	CGGAG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4433
1945	CGGAGGAGAGU G CUGAG	1655	GUAGG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4434
1951	GGGUGGAGAGU G AAGAG	1656	AGGAG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4435
1955	GGGUGGAGAGU G UGAGG	1657	GUAGA UGAGGAGAGGACUAGGAGG AAGGAGGAGC	4436
1957	GGGUGGAGAGU G AAGAG	1658	AGGAG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4437
1992	AGGAGGAGAGU G CAGAG	1659	GUAGG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4438
2009	AAAGGAGAGAGU G AAGAG	1660	AGGAG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4439
2023	GUUGGAGAGAGU G AAGAG	1661	AGGAG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4440
2029	CGGAGGAGAGU G AAGAG	1662	GUAGG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4441
2038	UGAGGAGAGAGU G UUGAG	1663	CUAGA UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4442
2047	UGUUGGAGAGU G CUGGA	1664	UGGAG UGAGGAGAGGACUAGGAGG AGGUGGAGCC	4443
2057	GUUGGAGAGAGU G AGGAG	1665	GUAGG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4444
2065	AGGAGGAGAGAGU G CUGAG	1666	GUAGG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4445
2070	CGGAGGAGAGAGU G CUGAG	1667	CGGAG UGAGGAGAGGACUAGGAGG GAGGAGUGGA	4446

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[illegible]

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2432	GUGGUGUAGG G AGAGG	1699	UGGUGUGGCAUGGACUAUAUGGUGG GAGGAGGAGG	4478
2449	GUGGUGUGUGG G AGAGG	1700	UGAUGUGGACAGGACUAUGGUGG GAGGAGGAGG	4479
2459	GUGGUGUGUGG G AGGAG	1701	GGGUGUGGUGGACUAUGGUGG AUUGAGGGAG	4480
2474	GUGGUGUGUGG G AGGAG	1702	UGGUGUGGACUAUGGUGGUGG GAGGAGGAG	4481
2487	GUGGUGUGAG G GUGAG	1703	UGAUGGUGGAGGACUAUGGUGG GAGGAGGAG	4482
2494	GUGGUGUGAG G GUGAG	1704	UGGUGUGGUGGACUAUAUGGUGG AGGAGGAGG	4483
2496	GUGGUGUGAG G GUGAG	1705	UGGUGUGGAGGACUAUGGUGG AGGAGGAGG	4484
2504	GUGGUGUGAG G GUGAG	1706	UGGUGUGGAGGACUAUGGUGG GUGGUGGAGG	4485
2509	AGGUGUGUGG G GUGAG	1707	AGGUGUGGAGGACUAUGGUGG AGGAGGAGG	4486
2511	AGGUGUGUGG G GUGAG	1708	UGGUGUGGAGGACUAUAUGGUGG GAGGAGGAGG	4487
2538	AGGUGUGUGG G GUGAG	1709	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4488
2551	AGGUGUGUGG G GUGAG	1710	UGGUGUGGAGGACUAUAUGGUGG GAGGAGGAGG	4489
2572	UGGUGUGUGG G GUGAG	1711	AGGUGUGGAGGACUAUGGUGG GUGGAGGAGG	4490
2575	UGGUGUGUGG G GUGAG	1712	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4491
2590	AGGUGUGUGG G GUGAG	1713	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4492
2597	UGGUGUGUGG G GUGAG	1714	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4493
2599	UGGUGUGUGG G GUGAG	1715	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4494
2597	UGGUGUGUGG G GUGAG	1716	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4495
2614	AGGUGUGUGG G GUGAG	1717	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4496
2618	AGGUGUGUGG G GUGAG	1718	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4497
2641	AGGUGUGUGG G GUGAG	1719	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4498
2647	AGGUGUGUGG G GUGAG	1720	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4499
2660	UGGUGUGUGG G GUGAG	1721	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4500
2668	AGGUGUGUGG G GUGAG	1722	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4501
2674	UGGUGUGUGG G GUGAG	1723	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4502
2692	AGGUGUGUGG G GUGAG	1724	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4503
2695	AGGUGUGUGG G GUGAG	1725	UGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4504
2721	AGGUGUGUGG G GUGAG	1726	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4505
2726	AGGUGUGUGG G GUGAG	1727	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4506
2732	AGGUGUGUGG G GUGAG	1728	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4507
2742	AGGUGUGUGG G GUGAG	1729	AGGUGUGGAGGACUAUAUGGUGG AGGAGGAGG	4508

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2749	GCUGGUGUGU G AACUU	1730	AAUUU UGAUGGCAUUGCAUUAUGGUGG ACCACGGCAGC	4509
2755	UGGUGAACUUU G CGGAA	1731	UUUUU UGAUGGCAUUGCAUUAUGGUGG AAGUUUACCA	4510
2770	AGACAGUGUU G AACUU	1732	AAUUU UGAUGGCAUUGCAUUAUGGUGG ACCACUGUCU	4511
2780	GAAUUUUUUU G UAGAA	1733	UUUUU UGAUGGCAUUGCAUUAUGGUGG AGGAAAGUUC	4512
2789	UGUGAGAGAC G AGGUC	1734	GUUUU UGAUGGCAUUGCAUUAUGGUGG GUUUUUUACA	4513
2813	CACGGGUUUU G UUGAG	1735	UUUAA UGAUGGCAUUGCAUUAUGGUGG AAAAGCCGUG	4514
2821	UUUUUUAGAU G UUGUC	1736	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGAACAA	4515
2847	UUUUUUUGUU G CGGUC	1737	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGGGAA	4516
2854	GUUGGUUUUU G UUGUU	1738	AGGAG UGAUGGCAUUGCAUUAUGGUGG AGGUGGCAAC	4517
2857	GUUGGUUUUU G UUGUA	1739	GUUAG UGAUGGCAUUGCAUUAUGGUGG AGGAAAGTGC	4518
2881	GUUGGUUUUU G UUGUA	1740	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGCAGGG	4519
2889	GUUGGUUUUU G UUGUA	1741	GUUUU UGAUGGCAUUGCAUUAUGGUGG GUUUUGCAAC	4520
2903	GUUGGUUUUU G UUGUA	1742	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGAAAG	4521
2940	GUUGGUUUUU G UUGUA	1743	GUUUU UGAUGGCAUUGCAUUAUGGUGG GUUGGAAAGU	4522
2955	GUUGGUUUUU G UUGUA	1744	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGUGGC	4523
2970	GUUGGUUUUU G UUGUA	1745	GUUUU UGAUGGCAUUGCAUUAUGGUGG GUUGGAAAGU	4524
2989	GUUGGUUUUU G UUGUA	1746	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGAAAG	4525
2995	GUUGGUUUUU G UUGUA	1747	GUUUU UGAUGGCAUUGCAUUAUGGUGG AGGUGGAAAG	4526
3000	GUUGGUUUUU G UUGUA	1748	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGUGGC	4527
3010	GUUGGUUUUU G UUGUA	1749	GUUUU UGAUGGCAUUGCAUUAUGGUGG AGGUGGUGAC	4528
3022	GUUGGUUUUU G UUGUA	1750	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGAAAG	4529
3028	GUUGGUUUUU G UUGUA	1751	GUUUU UGAUGGCAUUGCAUUAUGGUGG ACCUGGAAAU	4530
3046	GUUGGUUUUU G UUGUA	1752	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGUGGC	4531
3049	GUUGGUUUUU G UUGUA	1753	GUUUU UGAUGGCAUUGCAUUAUGGUGG ACCUGGUGAC	4532
3073	GUUGGUUUUU G UUGUA	1754	GUUUU UGAUGGCAUUGCAUUAUGGUGG AGGUGGUGAC	4533
3076	GUUGGUUUUU G UUGUA	1755	GUUUU UGAUGGCAUUGCAUUAUGGUGG AGGUGGUGAC	4534
3095	GUUGGUUUUU G UUGUA	1756	GUUUU UGAUGGCAUUGCAUUAUGGUGG GUGAAAGCUG	4535
3099	GUUGGUUUUU G UUGUA	1757	GUUUU UGAUGGCAUUGCAUUAUGGUGG AUAUGGUGGC	4536
3101	GUUGGUUUUU G UUGUA	1758	GUUUU UGAUGGCAUUGCAUUAUGGUGG ACCUGGUGAC	4537
3103	GUUGGUUUUU G UUGUA	1759	GUUUU UGAUGGCAUUGCAUUAUGGUGG ACCUGGUGAC	4538
3106	GUUGGUUUUU G UUGUA	1760	GUUUU UGAUGGCAUUGCAUUAUGGUGG AGGUGGUGAC	4539

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3154	CAUURUUUUU G CUGGU	1761	AGUAG UGAUUGAUUGCAUAUGUGUG AGGAAAAAUG	4540
3156	UUUUUCCUGG G CUGUA	1762	UGAGG UGAUGGUAUGCAUAUAUGUGUG GCGAGGAAAAA	4541
3167	CGUUAUUUUU G ACAGG	1763	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGAGAUAGUG	4542
3183	GUUUUUUUUU G GUUUA	1764	AGUAG UGAUUGGAUUGCAUAUAUGUGUG AGAGGGAAGUC	4543
3196	AGUUUAUUUU G AAUAG	1765	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGGAAUGGAGU	4544
3209	AGGCAAGGAAC G CAGGAG	1766	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GUUUCUUGGCU	4545
3217	AGGCAAGGAAC G GUUUA	1767	AGGGA UGAUUGGAUUGCAUAUAUGUGUG AUUUUUUUUU	4546
3220	CAGGGAUGUC G CUGGAG	1768	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GAAAUUUUUU	4547
3236	GGUUUAAGGUC G CUGUC	1769	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GUUUUUUGGUC	4548
3239	CAAGGAGGUC G CUGUC	1770	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GAGUUUUUUU	4549
3250	CGGAGGUCUU G GUUUA	1771	GAUAG UGAUUGGAUUGCAUAUAUGUGUG AGAGGUGGUGG	4550
3257	UUUUUUUUUU G AGGUC	1772	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GAAAGGACGA	4551
3265	CGGAGGUCUU G CAGGAG	1773	CAUUG UGAUUGGAUUGCAUAUAUGUGUG AGGAGUUUUU	4552
3274	UGGAGGUGUC G UGUGA	1774	UGGUA UGAUUGGAUUGCAUAUAUGUGUG AGGACACUGCA	4553
3276	CAGGAGGUCU G GUUUA	1775	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGAGGACACUG	4554
3292	AAGCAUUUUU G CUCAA	1776	UUUGAG UGAUUGGAUUGCAUAUAUGUGUG AGGAAUUGCUU	4555
3301	UGUUAAGUCU G AUUGG	1777	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGGUUGAGCA	4556
3306	AAGUUUAUUU G ACAGC	1778	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GAGUUAGCUU	4557
3314	UGGAGGUCUU G UGAGC	1779	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGGAGUUGCA	4558
3325	UUAUUUAUGU G CUAGC	1780	AGUAG UGAUUGGAUUGCAUAUAUGUGUG AGGUAGGUA	4559
3358	CAGGAGGAGC G CAGGU	1781	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GUUUUUUUUU	4560
3364	AGAGUAGUCU G AGUUG	1782	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGGUAGGUCU	4561
3385	UUUUUUUUUU G AUGGU	1783	AGGUG UGAUUGGAUUGCAUAUAUGUGUG GUUUUUUUUU	4562
3388	CAGGAGGAGC G UGAGC	1784	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GUUUUUUUUU	4563
3391	GGAGGAGGUCU G AGUUG	1785	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGGUGGUGUC	4564
3395	GAUUGUAGUCU G GUUUA	1786	CAUUG UGAUUGGAUUGCAUAUAUGUGUG AGGACAGGUC	4565
3407	GUUGGAGGUC G CAGUC	1787	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GUUUUUUUUU	4566
3424	ACCGGAGGUCU G GUUUA	1788	GAUUG UGAUUGGAUUGCAUAUAUGUGUG AGGUAGGUCU	4567
3453	AUCCUGGAGUC G AUGGC	1789	GUUUU UGAUUGGAUUGCAUAUAUGUGUG AGGACAGGUC	4568
3464	AUGGACAGCC G CUAGC	1790	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GUUUUUUUUU	4569
3479	CAGGAGGAGC G AGAGC	1791	GUUUU UGAUUGGAUUGCAUAUAUGUGUG GUUUUUUUUU	4570

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3501	CAGCAGGCGG	G	UUAAG	1792	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGUGGCG	4571
3506	GCCGUGUUC	G	CUAGG	1793	CGGAG	UGAUGGGAUGGACUAUGGGAAG	GUGACAGGGG	4572
3554	ACCGAGGCGG	G	CAAGG	1794	CGGAG	UGAUGGGAUGGACUAUGGGAAG	GAGGAGGCGG	4573
3559	GAGGAGGCGG	G	CUAGG	1795	CGGAG	UGAUGGGAUGGACUAUGGGAAG	GAGGAGGCGG	4574
3570	CUGGAGGCGG	G	AGGCG	1796	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4575
3577	UCGAGGCGG	G	AGGGA	1797	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4576
3581	AGGAGGCGG	G	AGGAG	1798	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4577
3585	CUGGAGGCGG	G	UUAAG	1799	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4578
3593	GUGGAGGCGG	G	AGGCG	1800	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4579
3600	CUGGAGGCGG	G	CUAGG	1801	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4580
3604	AGGAGGCGG	G	UUAAG	1802	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4581
3612	AGGAGGCGG	G	AGGAG	1803	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4582
3619	GUGGAGGCGG	G	AGGAG	1804	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4583
3622	AGGAGGCGG	G	UUAAG	1805	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4584
3631	GUGGAGGCGG	G	AGGCG	1806	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4585
3638	CUGGAGGCGG	G	AGGGA	1807	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4586
3642	AGGAGGCGG	G	AGGAG	1808	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4587
3646	CUGGAGGCGG	G	UUAAG	1809	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4588
3661	CUGGAGGCGG	G	AGGAG	1810	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4589
3665	AGGAGGCGG	G	UUAAG	1811	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4590
3678	CAGGAGGCGG	G	CUAGG	1812	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4591
3705	ACGAGGCGG	G	CUAGG	1813	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4592
3789	CUGGAGGCGG	G	CUAGG	1814	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4593
3795	AUGGAGGCGG	G	UUAAG	1815	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4594
3806	UUGGAGGCGG	G	CUAGG	1816	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4595
3811	CUGGAGGCGG	G	CUAGG	1817	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4596
3821	GUGGAGGCGG	G	CUAGG	1818	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4597
3854	UGGAGGCGG	G	AGGAG	1819	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4598
3888	AUGGAGGCGG	G	AGGGA	1820	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4599
3892	CAGGAGGCGG	G	UUAAG	1821	CGGGA	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4600
3900	CUGGAGGCGG	G	CUAGG	1822	CGGAG	UGAUGGGAUGGACUAUGGGAAG	AGGAGGCGG	4601



Table V

[illegible]

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp), Nakamura *et al.*, Science 277 (5328), 955-959 (1997)  
Input Sequence = TERT. Cut Site = YG/M or UG/U.

Stem Length = 5/10. Core Sequence = UGAUG GCAUGCACUAUGC GCG

Table VI

Table VI: Human telomerase reverse transcriptase (TERT) DNAzyme and Target Sequence

nt. Position	DNAzyme Sequence	Seq. ID Nos	Substrate	Seq. ID Nos
9	CAGGAGGC GAGTACGCTACAAAGCA AGGAGTATC	1832	GGAGAGGC G GGGGCGCG	4611
11	AGCAGGAC GAGTACGCTACAAAGCA GAGAGTATC	1833	AGGAGTATC G GGGGCGCG	4612
16	TGGGACGC GAGTACGCTACAAAGCA AGAGAGGCA	1834	AGGAGTATC G GGGGCGCG	4613
19	AGGTGCGC GAGTACGCTACAAAGCA AGAGAGGCA	1835	GGGAGTATC G GGGGCGCG	4614
21	CAAGGTGC GAGTACGCTACAAAGCA AGAGAGGCA	1836	AGGAGTATC G GGGGCGCG	4615
23	TGAGAGGT GAGTACGCTACAAAGCA AGAGAGGCA	1837	AGGAGTATC A AGGAGGCA	4616
25	CTTCCGAC GAGTACGCTACAAAGCA AGAGAGGCA	1838	CTGAGTATC G GGGGCGCG	4617
32	AGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1839	GGGAGTATC G GGGGCGCG	4618
38	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1840	AGGAGTATC G GGGGCGCG	4619
44	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1841	AGGAGTATC G GGGGCGCG	4620
47	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1842	GGGAGTATC A AGGAGGCA	4621
53	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1843	GGGAGTATC G GGGGCGCG	4622
56	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1844	GGGAGTATC A AGGAGGCA	4623
59	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1845	GGGAGTATC A AGGAGGCA	4624
61	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1846	GGGAGTATC G GGGGCGCG	4625
63	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1847	GGGAGTATC G GGGGCGCG	4626
65	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1848	GGGAGTATC G GGGGCGCG	4627
72	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1849	GGGAGTATC G GGGGCGCG	4628
75	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1850	GGGAGTATC G GGGGCGCG	4629
80	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1851	GGGAGTATC G GGGGCGCG	4630
83	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1852	GGGAGTATC G GGGGCGCG	4631
85	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1853	GGGAGTATC G GGGGCGCG	4632
87	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1854	GGGAGTATC G GGGGCGCG	4633
94	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1855	GGGAGTATC G GGGGCGCG	4634
97	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1856	GGGAGTATC G GGGGCGCG	4635
99	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1857	GGGAGTATC G GGGGCGCG	4636
102	GGGAGGCG GAGTACGCTACAAAGCA AGAGAGGCA	1858	GGGAGTATC G GGGGCGCG	4637

Table VI

105	GCGTAGT GGTAGCTACAAAGA GGTATAGC	1859	GCGCAGC A ACUACGGC	4638
109	CTGCGGCT GGTAGCTACAAAGA ATTGATTC	1860	CAGGTAAC A AAGGAGAG	4639
111	CACCTGGC GGTAGCTACAAAGA GGTATGTC	1861	CCACUACC G GCGAGGUG	4640
116	GGLAGLAC GGTAGCTACAAAGA CTGCGGCT	1862	ACCGGAG G GUGCUAGC	4641
118	GCGCAGC GGTAGCTACAAAGA AATTCAGC	1863	GCGCAAGG G GGTGTCAC	4642
121	CCAGTGGC GGTAGCTACAAAGA AGGATTCG	1864	GAGGAGG G GGTGTCAG	4643
124	TGCTCAGC GGTAGCTACAAAGA GGTATACAC	1865	GUGGAGG G GCGGGCCA	4644
128	AAGTGGC GGTAGCTACAAAGA CAGGCGCA	1866	UGCGGCG G GCGCAGTC	4645
131	AGGAGGCT GGTAGCTACAAAGA GGTATAGC	1867	GCGCGGC A ACGUUGG	4646
133	GCAGGAC GGTAGCTACAAAGA GTGCGTAC	1868	CGGATAC G GGTGTCAC	4647
137	CGCGGAC GGTAGCTACAAAGA GGTATAGC	1869	CGCGGAC G GCGGCGG	4648
139	GCGCGGCT GGTAGCTACAAAGA ACGAGGCT	1870	ACGCGGCT G GCGGCGG	4649
142	CGAGGCT GGTAGCTACAAAGA GCGCGGAC	1871	UUGGCGG G GGTGCGG	4650
144	CGCGGCT GGTAGCTACAAAGA GGTATAGC	1872	GHTGCGG G GGTGCGG	4651
151	CGCGGCT GGTAGCTACAAAGA GGTATAGC	1873	CGCGGCT G GGTGCGG	4652
159	CGCGGCT GGTAGCTACAAAGA GGTATAGC	1874	GCGCGGCT G GGTGCGG	4653
163	CGCGGCT GGTAGCTACAAAGA GGTATAGC	1875	CGCGGCT G GGTGCGG	4654
166	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1876	GCGCGGCT G GGTGCGG	4655
170	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1877	GCGCGGCT G GGTGCGG	4656
172	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1878	GCGCGGCT G GGTGCGG	4657
175	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1879	GCGCGGCT G GGTGCGG	4658
177	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1880	GCGCGGCT G GGTGCGG	4659
183	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1881	GCGCGGCT A ACGCGGCT	4660
188	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1882	GCGCGGCT G GGTGCGG	4661
191	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1883	GCGCGGCT G GGTGCGG	4662
198	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1884	GCGCGGCT G GGTGCGG	4663
200	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1885	GCGCGGCT G GGTGCGG	4664
202	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1886	GCGCGGCT G GGTGCGG	4665
206	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1887	GCGCGGCT G GGTGCGG	4666
209	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1888	GCGCGGCT G GGTGCGG	4667
214	GCGCGGCT GGTAGCTACAAAGA GGTATAGC	1889	GCGCGGCT G GGTGCGG	4668

Table VI

214	GAAGAGGC GGTAGCTACAAAGG ACTGAGGC	1890	GGCCCAAG G GTTGAAGG	4669
241	AGGACAGC GGTAGCTACAAAGG CAGGAGCT	1891	AGGAGGAG G GUGGCGG	4670
243	GCAGAGAG GGTAGCTACAAAGG AATAGGCA	1892	GGCCGAGG G GUGGCGG	4671
225	GGGAGAGC GGTAGCTACAAAGG AATAGGCA	1893	GTGAGAGG G GUGGCGG	4672
227	GAGGAGAG GGTAGCTACAAAGG GAGAGGCA	1894	GGGAGAGG G GUGGCGG	4673
229	GAAGAGAG GGTAGCTACAAAGG AATAGGCA	1895	GTGAGAGG G GUGGCGG	4674
237	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1896	GGGAGAGG A AGGAGAGG	4675
239	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1897	GGGAGAGG G GAGAGGCG	4676
241	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1898	GGGAGAGG A AGGAGGCG	4677
244	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1899	GGGAGAGG G GAGAGGCG	4678
247	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1900	GGGAGAGG G GAGAGGCG	4679
254	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1901	GGGAGAGG G GAGAGGCG	4680
257	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1902	GGGAGAGG G GAGAGGCG	4681
270	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1903	GGGAGAGG G GAGAGGCG	4682
275	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1904	GGGAGAGG G GAGAGGCG	4683
277	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1905	GGGAGAGG G GAGAGGCG	4684
284	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1906	GGGAGAGG G GAGAGGCG	4685
292	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1907	GGGAGAGG G GAGAGGCG	4686
296	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1908	GGGAGAGG G GAGAGGCG	4687
299	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1909	GGGAGAGG G GAGAGGCG	4688
305	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1910	GGGAGAGG G GAGAGGCG	4689
307	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1911	GGGAGAGG G GAGAGGCG	4690
310	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1912	GGGAGAGG G GAGAGGCG	4691
316	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1913	GGGAGAGG G GAGAGGCG	4692
319	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1914	GGGAGAGG G GAGAGGCG	4693
321	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1915	GGGAGAGG G GAGAGGCG	4694
325	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1916	GGGAGAGG G GAGAGGCG	4695
327	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1917	GGGAGAGG G GAGAGGCG	4696
330	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1918	GGGAGAGG G GAGAGGCG	4697
332	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1919	GGGAGAGG G GAGAGGCG	4698
339	GGGAGAGC GGTAGCTACAAAGG GAGAGGCA	1920	GGGAGAGG A AGGAGGCG	4699

Table VI

341	GCCAGGAC GGCATGCTACAAAGA GTCTTTCG	1921	CGAAGAAC G GUGCUGGC	4700
343	AGGCAAGC GGCATGCTACAAAGA AGTTTCTT	1922	AAGAAGAC G GUGGCGCC	4701
347	CCGAAGAC GGCATGCTACAAAGA CAAATAT	1923	AGGAGGAC G GCUUUCGG	4702
354	GGCGAAGC GGCATGCTACAAAGA GGAAGGCG	1924	GGCTTTGG G GCUUGCGG	4703
359	AGCAAGAC GGCATGCTACAAAGA GAAAGGCG	1925	HTGGCUUC G GCGCUGCU	4704
361	CCAGACAG GGCATGCTACAAAGA GGAAGGCG	1926	GGCUUUGC G GUGGCGGG	4705
364	CTTCAAGC GGCATGCTACAAAGA AGGAGGCG	1927	UUUAGATG G GTUGGACG	4706
369	GGCGGCGC GGCATGCTACAAAGA CAGGCGCG	1928	GCUGGUGG A AGGAGGCG	4707
374	CGCGGCGC GGCATGCTACAAAGA CAGGCGCG	1929	GGGAGGAG G GCGGCGCG	4708
379	GGCGGCGC GGCATGCTACAAAGA CAGGCGCG	1930	GGGAGGAG G GCGGCGCG	4709
384	GGCGGCGC GGCATGCTACAAAGA CAGGCGCG	1931	GGGAGGAG G GCGGCGCG	4710
395	GTGAGGCG GGCATGCTACAAAGA CAGGCGCG	1932	GGGAGGAG G GCGGCGCG	4711
401	CTGAGGCG GGCATGCTACAAAGA CAGGCGCG	1933	AGGCTTTT A AGGAGGCG	4712
404	AGGCTGCG GGCATGCTACAAAGA GGTGAGCG	1934	CGUUCAGT A AGGAGGCG	4713
408	GGGAGGCG GGCATGCTACAAAGA GGTGAGCG	1935	CACTAGCA G GCGGCGCG	4714
410	CTGAGGCG GGCATGCTACAAAGA GGTGAGCG	1936	CTAGGAGC G GUGGCGCG	4715
412	AGCTGAGC GGCATGCTACAAAGA AATATAGT	1937	ACGAGGCG G GCGGCGCG	4716
414	GTAGTAGC GGCATGCTACAAAGA GCGAGGCG	1938	CAGGCGCG G GCGGCGCG	4717
417	CAGGAGCG GGCATGCTACAAAGA TATGAGCG	1939	GGGCGGCA G GTUAGGCG	4718
420	GGGAGGCG GGCATGCTACAAAGA AGCTAGCG	1940	GGGAGGCG A AGGAGGCG	4719
424	TGTTGAGC GGCATGCTACAAAGA AGCTAGCG	1941	AGCTAGCG G GCGGCGCG	4720
429	CAGGAGCG GGCATGCTACAAAGA GGTGAGCG	1942	CGGAGGCG A AGGAGGCG	4721
431	GTAGTAGC GGCATGCTACAAAGA GGTGAGCG	1943	GGGCGGCA A AGGAGGCG	4722
434	TGTTGAGC GGCATGCTACAAAGA AGCTAGCG	1944	CTAGGAGC G GCGGCGCG	4723
437	GGGAGGCG GGCATGCTACAAAGA AGCTAGCG	1945	AGGAGGCG A AGGAGGCG	4724
441	CAGGAGCG GGCATGCTACAAAGA GGTGAGCG	1946	GGGAGGCG A AGGAGGCG	4725
443	GTAGTAGC GGCATGCTACAAAGA GGTGAGCG	1947	GGGAGGCG G GCGGCGCG	4726
445	CAGGAGCG GGCATGCTACAAAGA GGTGAGCG	1948	AGGAGGCG A AGGAGGCG	4727
448	TGTTGAGC GGCATGCTACAAAGA AGCTAGCG	1949	GGGAGGCG G GCGGCGCG	4728
456	GGGAGGCG GGCATGCTACAAAGA GGTGAGCG	1950	GGGAGGCG G GCGGCGCG	4729
461	GGGAGGCG GGCATGCTACAAAGA GGTGAGCG	1951	GGGAGGCG G GCGGCGCG	4730

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463	GAGGAGGAC GGTAGCTACAAAGA GATGATTTT	1952	AGGGGGGGC G GGGGGGGGC	4731
469	GATGAGGAG GGTATGCTACAAAGA GGGGAGGC	1953	GCGGGGGG G GCGGCGGC	4732
472	GCAGAGAG GGTATGCTACAAAGA AGGAGGGA	1954	GGGGGAGG G GCGGAGGC	4733
475	GAGGAGGAG GGTAGCTACAAAGA AGGAGGAG	1955	GCGGCGGCG G GCGGCGGC	4734
478	GAGGAGGAG GGTAGCTACAAAGA AGGAGGAG	1956	GCGGCGGCG G GCGGCGGC	4735
480	GAGGAGGAG GGTAGCTACAAAGA AGGAGGAG	1957	GCGGCGGCG G GCGGCGGC	4736
483	GAGGAGGAG GGTAGCTACAAAGA AGGAGGAG	1958	GCGGCGGCG G GCGGCGGC	4737
485	TGGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1959	GGGGGAGG G GGGGAGGC	4738
489	GATGAGGAG GGTAGCTACAAAGA GGTAGGGA	1960	GGGGGAGG G GGGGAGGC	4739
492	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1961	GCGGCGGCG A AGGAGGAG	4740
495	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1962	GCGGCGGCG A AGGAGGAG	4741
497	AGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1963	GCGGCGGCG G GCGGCGGC	4742
499	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1964	GAGGAGGAG G GCGGCGGC	4743
503	AGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1965	AGGAGGAG G GCGGCGGC	4744
507	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1966	GCGGCGGCG A AGGAGGAG	4745
511	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1967	GCGGCGGCG G GCGGCGGC	4746
515	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1968	AGGAGGAG G GCGGCGGC	4747
517	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1969	GGGGGAGG A AGGAGGAG	4748
519	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1970	GCGGCGGCG G GCGGCGGC	4749
522	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1971	GCGGCGGCG G GCGGCGGC	4750
524	AGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1972	GCGGCGGCG G GCGGCGGC	4751
526	AGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1973	GCGGCGGCG G GCGGCGGC	4752
533	AGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1974	GCGGCGGCG G GCGGCGGC	4753
535	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1975	GCGGCGGCG G GCGGCGGC	4754
539	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1976	GCGGCGGCG G GCGGCGGC	4755
542	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1977	GCGGCGGCG G GCGGCGGC	4756
549	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1978	GCGGCGGCG G GCGGCGGC	4757
552	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1979	GCGGCGGCG G GCGGCGGC	4758
554	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1980	GCGGCGGCG G GCGGCGGC	4759
558	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1981	GCGGCGGCG A AGGAGGAG	4760
563	GAGGAGGAG GGTAGCTACAAAGA GGTAGGGA	1982	GCGGCGGCG G GCGGCGGC	4761

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565	GGCTAGAGC GGCTAGCTATATATATTA AATATAGTA	1983	UACCAAGGU G GUGGAGGAGC	4762
567	GGGAGGCGG GGGTATATATATATATTA AATAGCTAG	1984	CCAGATATG G GCGGAGGCGG	4763
571	GGAGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1985	GUGGAGGAGG G GCGGAGGCGC	4764
574	AAGAGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1986	GGGAGGAGG G GCGGAGGCGC	4765
577	GGTATAGGAGC GGCTAGCTATATATATTA AATATATAC	1987	GGGAGGAGG G GCGGAGGCGC	4766
580	GCTAGGAGC GGCTAGCTATATATATTA AATATATAC	1988	GGGAGGAGG G GCGGAGGCGC	4767
582	GAGTATAGC GGCTAGCTATATATATTA AATATATAC	1989	GGGAGGAGG G GCGGAGGCGC	4768
586	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1990	GGGAGGAGG G GCGGAGGCGC	4769
591	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1991	GGGAGGAGG G GCGGAGGCGC	4770
593	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1992	GGGAGGAGG G GCGGAGGCGC	4771
595	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1993	GGGAGGAGG G GCGGAGGCGC	4772
599	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1994	GGGAGGAGG G GCGGAGGCGC	4773
605	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1995	GGGAGGAGG G GCGGAGGCGC	4774
610	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1996	GGGAGGAGG G GCGGAGGCGC	4775
616	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1997	GGGAGGAGG G GCGGAGGCGC	4776
619	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1998	GGGAGGAGG G GCGGAGGCGC	4777
621	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	1999	GGGAGGAGG G GCGGAGGCGC	4778
623	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2000	GGGAGGAGG G GCGGAGGCGC	4779
627	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2001	GGGAGGAGG G GCGGAGGCGC	4780
631	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2002	GGGAGGAGG G GCGGAGGCGC	4781
640	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2003	GGGAGGAGG G GCGGAGGCGC	4782
647	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2004	GGGAGGAGG G GCGGAGGCGC	4783
649	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2005	GGGAGGAGG G GCGGAGGCGC	4784
651	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2006	GGGAGGAGG G GCGGAGGCGC	4785
655	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2007	GGGAGGAGG G GCGGAGGCGC	4786
659	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2008	GGGAGGAGG G GCGGAGGCGC	4787
666	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2009	GGGAGGAGG G GCGGAGGCGC	4788
669	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2010	GGGAGGAGG G GCGGAGGCGC	4789
672	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2011	GGGAGGAGG G GCGGAGGCGC	4790
674	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2012	GGGAGGAGG G GCGGAGGCGC	4791
683	GGGAGGAGC GGCTAGCTATATATATTA AATATATAC	2013	GGGAGGAGG G GCGGAGGCGC	4792

Table VI

689	AGGAGGAC	GCTAGCTACAAAGA	GGGAGGCT	2014	AGGAGGAG	G	GUCCGCCU	4793
699	TGGAAGGC	GCTAGCTACAAAGA	GTAGAGAG	2015	GGGAGGAG	G	GUCCGCCA	4794
702	GGGAGGAC	GCTAGCTACAAAGA	AGGAGGAG	2016	GGGAGGAG	G	GUCCGCCC	4795
707	GGGAGGAG	GCTAGCTACAAAGA	TGAGAGAG	2017	GGGAGGAG	G	GUCCGCCG	4796
714	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2018	AGGAGGAG	G	GUCCGCCG	4797
716	GGGAGGAG	GCTAGCTACAAAGA	AGGAGGAG	2019	GGGAGGAG	G	GUCCGCCG	4798
724	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2020	GGGAGGAG	G	GUCCGCCG	4799
726	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2021	GGGAGGAG	G	GUCCGCCG	4800
732	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2022	GGGAGGAG	G	GUCCGCCG	4801
735	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2023	GGGAGGAG	G	GUCCGCCG	4802
737	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2024	GGGAGGAG	G	GUCCGCCG	4803
741	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2025	GGGAGGAG	G	GUCCGCCG	4804
747	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2026	GGGAGGAG	G	GUCCGCCG	4805
751	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2027	GGGAGGAG	G	GUCCGCCG	4806
754	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2028	GGGAGGAG	G	GUCCGCCG	4807
757	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2029	GGGAGGAG	G	GUCCGCCG	4808
766	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2030	GGGAGGAG	G	GUCCGCCG	4809
772	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2031	GGGAGGAG	G	GUCCGCCG	4810
774	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2032	GGGAGGAG	G	GUCCGCCG	4811
777	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2033	GGGAGGAG	G	GUCCGCCG	4812
779	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2034	GGGAGGAG	G	GUCCGCCG	4813
782	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2035	GGGAGGAG	G	GUCCGCCG	4814
790	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2036	GGGAGGAG	G	GUCCGCCG	4815
796	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2037	GGGAGGAG	G	GUCCGCCG	4816
800	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2038	GGGAGGAG	G	GUCCGCCG	4817
802	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2039	GGGAGGAG	G	GUCCGCCG	4818
806	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2040	GGGAGGAG	G	GUCCGCCG	4819
811	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2041	GGGAGGAG	G	GUCCGCCG	4820
817	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2042	GGGAGGAG	G	GUCCGCCG	4821
824	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2043	GGGAGGAG	G	GUCCGCCG	4822
828	GGGAGGAG	GCTAGCTACAAAGA	GGGAGGAG	2044	GGGAGGAG	G	GUCCGCCG	4823



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834	GGTGTGTC	GGCTAGGTACAAAG	GGGAGTGG	2045	CCACCTGG	G	GTAGGACG	4824
839	CCACGGGT	GGCTAGGTACAAAG	GGGAGTGG	2046	GGGAGAGG	A	AGAGGAGG	4825
841	GTCCACGC	GGCTAGGTACAAAG	GGCTGTGC	2047	GGCAGGAC	G	GGGAGGAC	4826
843	GGGTGTCG	GGCTAGGTACAAAG	GGGTGTGG	2048	TAAGAGGC	G	GGGAGCCG	4827
847	CACCTGGT	GGCTAGGTACAAAG	GGAGGGGT	2049	AGTATGAG	A	AGTATAGG	4828
852	ACGGTCAC	GGCTAGGTACAAAG	TGGGTGGA	2050	GGGAGGGA	G	GGGAGCGG	4829
855	ACCAAGGT	GGCTAGGTACAAAG	CACCTGAT	2051	ACGAGAGG	A	AGCGAGG	4830
858	GAAGAGGC	GGCTAGGTACAAAG	GTCTCATC	2052	GAAGAGGC	G	GGGAGGTC	4831
861	ACAGAGAC	GGCTAGGTACAAAG	CAGGCTGA	2053	GGACCGGG	G	GUUCCGCG	4832
867	CACCAAGC	GGCTAGGTACAAAG	AGAGAGCA	2054	GGGAGGAG	G	GGGAGGCG	4833
869	GACAGGAC	GGCTAGGTACAAAG	ACAGAGAC	2055	GGGAGGAG	G	GGGAGGTC	4834
872	GCTAGGAC	GGCTAGGTACAAAG	CACATGGA	2056	GGGAGGAG	G	GGGAGGAC	4835
874	CAGGAGAC	GGCTAGGTACAAAG	AGCAGACA	2057	GGGAGGAG	G	GGGAGGTC	4836
877	TGCTAGGT	GGCTAGGTACAAAG	GAAGAGAC	2058	GGGAGGAG	A	AGGAGGCA	4837
881	GGCTAGGC	GGCTAGGTACAAAG	AGCTGACA	2059	GGGAGGAG	G	GGGAGGAC	4838
886	GGCTAGGT	GGCTAGGTACAAAG	GGGAGGAG	2060	GGGAGGAG	A	AGGAGGAG	4839
890	GGCTAGGC	GGCTAGGTACAAAG	GGGAGGAG	2061	GGGAGGAG	G	GGGAGGAG	4840
899	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2062	GGGAGGAG	G	GGGAGGAG	4841
902	AGAGAGGT	GGCTAGGTACAAAG	GGCTTCCT	2063	AGAGAGGC	A	AGGAGGAG	4842
915	GAGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2064	GGGAGGAG	G	GGGAGGAG	4843
917	GAGAGGAG	GGCTAGGTACAAAG	AGGAGGAG	2065	GGGAGGAG	G	GGGAGGAG	4844
919	CAGAGAGC	GGCTAGGTACAAAG	GGGAGGAG	2066	GGGAGGAG	G	GGGAGGAG	4845
927	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2067	GGGAGGAG	G	GGGAGGAG	4846
929	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2068	GGGAGGAG	A	AGGAGGAG	4847
931	AGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2069	GGGAGGAG	G	GGGAGGAG	4848
932	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2070	GGGAGGAG	G	GGGAGGAG	4849
936	GTGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2071	GGGAGGAG	A	AGGAGGAG	4850
942	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2072	GGGAGGAG	A	AGGAGGAG	4851
946	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2073	GGGAGGAG	A	AGGAGGAG	4852
950	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2074	GGGAGGAG	G	GGGAGGAG	4853
954	GGGAGGAG	GGCTAGGTACAAAG	GGGAGGAG	2075	GGGAGGAG	G	GGGAGGAG	4854

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957	GTGCTGAG GGTAGGTACAAAGA GGGGCGAG	2076	GGGAGAG G GCGAGGAC	4855
961	CGTGGTGC GGTAGGTACAAAGA TGGGCGAG	2077	GGGAGAG G GCGAGGAC	4856
963	CGGCTGCT GGTAGGTACAAAGA GTTGGGAG	2078	CGGCGAG A ACCAGGAG	4857
966	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2079	CGGAGAG A AGGCGGAG	4858
969	GGGCGGCG GGTAGGTACAAAGA GTTGGGAG	2080	AGGAGAG G GCGGCGAG	4859
972	TGGGCGGCG GGTAGGTACAAAGA GTTGGGAG	2081	CGGAGAG G GCGGCGAG	4860
979	ATGTTGAT GGTAGGTACAAAGA GTTGGGAG	2082	GGGCGGCG A AGGCGGAG	4861
983	CGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2083	CGGAGAG A AGGCGGAG	4862
985	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2084	CGGCGGAG A AGGCGGAG	4863
988	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2085	GGGAGAG G GCGGCGAG	4864
991	GTGCTGAG GGTAGGTACAAAGA GTTGGGAG	2086	AGGAGAG G GCGGCGAG	4865
994	GGGCTGCT GGTAGGTACAAAGA GTTGGGAG	2087	GGGCGGAG A AGGCGGAG	4866
997	AGGAGTGC GGTAGGTACAAAGA GTTGGGAG	2088	GGGCGGAG A AGGCGGAG	4867
999	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2089	GGGAGAG G GCGGCGAG	4868
1008	AGGCTGCT GGTAGGTACAAAGA GTTGGGAG	2090	GGGCGGAG A AGGCGGAG	4869
1010	CAAGGCTG GGTAGGTACAAAGA GTTGGGAG	2091	GGGCGGAG A AGGCGGAG	4870
1012	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2092	GGGAGAG G GCGGCGAG	4871
1017	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2093	GGGCGGAG G GCGGCGAG	4872
1025	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2094	GGGCGGAG G GCGGCGAG	4873
1027	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2095	GGGCGGAG G GCGGCGAG	4874
1029	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2096	GGGCGGAG A AGGCGGAG	4875
1031	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2097	GGGCGGAG G GCGGCGAG	4876
1037	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2098	AGGCGGAG A ACCAGGAG	4877
1042	GGGAGTGC GGTAGGTACAAAGA GTTGGGAG	2099	GGGAGAG G GCGGCGAG	4878
1044	GGGAGTGC GGTAGGTACAAAGA GTTGGGAG	2100	GGGAGAG A AGGCGGAG	4879
1053	GGGAGTGC GGTAGGTACAAAGA GTTGGGAG	2101	GGGCGGAG A AGGCGGAG	4880
1062	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2102	GGGCGGAG G GCGGCGAG	4881
1065	GGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2103	GGGAGAG A AGGCGGAG	4882
1072	GGGAGTGC GGTAGGTACAAAGA GTTGGGAG	2104	GGGAGAG G GCGGCGAG	4883
1075	GGGAGTGC GGTAGGTACAAAGA GTTGGGAG	2105	AGGAGAG A AGGCGGAG	4884
1078	AGGCGTGC GGTAGGTACAAAGA GTTGGGAG	2106	GGGAGAG G GCGGCGAG	4885

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1081	AAGAGGAG GGTAGCTAACAGG AATAGGAG	2107	CAGGAGG G GGTGCTG	4886
1093	AGCTGAGT GGTAGCTAACAGG AATAGGAG	2108	UCCCTGCT A AATGAGG	4887
1099	CAGAGGAG GGTAGCTAACAGG AATAGGAG	2109	CCUACUGA G GCUCCUG	4888
1109	AGCTGAGT GGTAGCTAACAGG AATAGGAG	2110	UCCCTGCT G GGTGCTG	4889
1113	AGCTGAGT GGTAGCTAACAGG AATAGGAG	2111	GAGGCGA G GCUCCUG	4890
1118	GGGCGAGT GGTAGCTAACAGG AATAGGAG	2112	CCAGGCT A AATGAGG	4891
1122	CCAGGAGT GGTAGCTAACAGG AATAGGAG	2113	CTGAGCT G GCUCCUG	4892
1124	CTGAGCT GGTAGCTAACAGG AATAGGAG	2114	GGGCTGCT G GCUCCUG	4893
1132	CCAGGAGT GGTAGCTAACAGG AATAGGAG	2115	GCTGAGG G GCUCCUG	4894
1136	CTGAGCT GGTAGCTAACAGG AATAGGAG	2116	AGAGGCT G GGTGAGG	4895
1142	AAGAGCT GGTAGCTAACAGG AATAGGAG	2117	TCCTGAGG A AATGAGG	4896
1145	AAGAGCT GGTAGCTAACAGG AATAGGAG	2118	GGGAGAG A AATGAGG	4897
1155	CTGAGCT GGTAGCTAACAGG AATAGGAG	2119	CTGAGG G GCUCCUG	4898
1162	TCCTGAGT GGTAGCTAACAGG AATAGGAG	2120	GGGCTGCT G GCUCCUG	4899
1169	CTGAGCT GGTAGCTAACAGG AATAGGAG	2121	GGGCTGCT A AATGAGG	4900
1171	TCCTGAGT GGTAGCTAACAGG AATAGGAG	2122	CTGAGG G GGTGAGG	4901
1178	GGGAGCT GGTAGCTAACAGG AATAGGAG	2123	GGGAGG A AATGAGG	4902
1185	CTGAGCT GGTAGCTAACAGG AATAGGAG	2124	GGGCTGCT G GGTGAGG	4903
1189	GGGAGCT GGTAGCTAACAGG AATAGGAG	2125	CTGAGG G GGTGAGG	4904
1192	GGGAGCT GGTAGCTAACAGG AATAGGAG	2126	CTGAGG G GGTGAGG	4905
1197	GGGAGCT GGTAGCTAACAGG AATAGGAG	2127	GGGCTGCT G GGTGAGG	4906
1201	GGGAGCT GGTAGCTAACAGG AATAGGAG	2128	GGGCTGCT G GGTGAGG	4907
1207	AGTAGCT GGTAGCTAACAGG AATAGGAG	2129	GGGCTGCT G GGTGAGG	4908
1209	CCAGTAGT GGTAGCTAACAGG AATAGGAG	2130	GGGCTGCT G GGTGAGG	4909
1212	TCCTGAGT GGTAGCTAACAGG AATAGGAG	2131	CCAGGCT A AATGAGG	4910
1216	CTGAGCT GGTAGCTAACAGG AATAGGAG	2132	CTGAGG G GGTGAGG	4911
1220	GGGAGCT GGTAGCTAACAGG AATAGGAG	2133	AGGAGCT A AATGAGG	4912
1222	GGGAGCT GGTAGCTAACAGG AATAGGAG	2134	GGGAGCT G GGTGAGG	4913
1225	AGGAGCT GGTAGCTAACAGG AATAGGAG	2135	CTGAGG G GGTGAGG	4914
1231	CCAGTAGT GGTAGCTAACAGG AATAGGAG	2136	CTGAGCT G GGTGAGG	4915
1240	CCAGTAGT GGTAGCTAACAGG AATAGGAG	2137	UUUCCGCT G GGTGAGG	4916

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1240	TGCGAAGC	GGTAGCTAACAAAGA	AGTTTGAAG	2128	CTGGAGGT	G	GGTGGGGA	4917
1251	CTGATGCT	GGTTATGTTAAAGGA	TTGCAAGC	2139	GGTGGGA	A	AGCAAGGG	4918
1254	CTGAGGCT	GGTAGCTAACAAAGA	GGTTCCCA	2140	TTGGGAAC	A	AGGGGAG	4919
1256	CACTGCGC	GGTAGCTAACAAAGA	GTGTTCC	2141	GGAAATAC	G	GGGCAAG	4920
1258	GGAGCTGC	GGTAGCTAACAAAGA	GTGTTCT	2142	TAACCAAG	G	GGAGGGC	4921
1261	AGGGGAG	GGTAGCTAACAAAGA	TTGTTGGTG	2143	CAGGAGCA	G	GUGGCGG	4922
1263	GTAGGGG	GGTAGCTAACAAAGA	AGTGGGCG	2144	GGGGGAG	G	GGCGGAG	4923
1269	CAGCGGCT	GGTAGCTAACAAAGA	AGTGGGAG	2145	GGGCGGAG	A	AGGGGAG	4924
1274	AGGAGGAG	GGTAGCTAACAAAGA	GGTGTAGG	2146	CTGATGGG	G	GGGCGGCG	4925
1276	TTAGGAGG	GGTAGCTAACAAAGA	ATGTTGGA	2147	CAAGGAGG	G	GGGCGGGA	4926
1286	CAGTGGCT	GGTAGCTAACAAAGA	CTTAGGGA	2148	TCCTGAGG	A	AGGCAAG	4927
1288	GGAGGTCG	GGTAGCTAACAAAGA	GTCTTAG	2149	CTCAGGAG	G	GGCAAGCG	4928
1290	GGGGGAGT	GGTAGCTAACAAAGA	GGTCTTG	2150	CAAGAGCG	A	AGGCGCG	4929
1292	CAAGGAGG	GGTAGCTAACAAAGA	AGTGGGTC	2151	GAAGGAGG	G	GGTGTGAG	4930
1297	CTGGAGCG	GGTAGCTAACAAAGA	GGGAGAGG	2152	CAGCGGCG	G	GGGCGGAG	4931
1300	CAGTGGCT	GGTAGCTAACAAAGA	AGGAGGGA	2153	UGGCGGAG	G	GGGAGGCG	4932
1304	AGGAGGCG	GGTAGCTAACAAAGA	TTGAGAGG	2154	GGCGGAGG	G	GGGCGGAG	4933
1307	GTAGGCGC	GGTAGCTAACAAAGA	AGTGGGGA	2155	GGGAGGCG	G	GGGCGGAG	4934
1310	GGGCTGAG	GGTAGCTAACAAAGA	GGTGGGTC	2156	GGGTTGAG	G	GGGCGGCG	4935
1313	GGTGGGCT	GGTAGCTAACAAAGA	GGTGGGAG	2157	GGGAGGCG	A	AGGCGGAG	4936
1319	CGGCTGCT	GGTAGCTAACAAAGA	GGGCTGGA	2158	GGGAGGGA	G	GGGAGGCG	4937
1322	AGGAGGCG	GGTAGCTAACAAAGA	TTGTTGAG	2159	GGGAGGGA	G	GGGCGGAG	4938
1326	AGGAGGAG	GGTAGCTAACAAAGA	GGTGGGCT	2160	AGGAGGCG	G	GGGCGGCG	4939
1328	GGAGGAGG	GGTAGCTAACAAAGA	AGGAGGCT	2161	CAAGGAGG	G	GGGAGGCG	4940
1332	GGGAGGAG	GGTAGCTAACAAAGA	AGGAGGCG	2162	GGGAGGCT	G	GGGCGGCG	4941
1334	TTGAGGCG	GGTAGCTAACAAAGA	AGGAGGAG	2163	GGGAGGCG	G	GGGCGGGA	4942
1345	CTGAGGCG	GGTAGCTAACAAAGA	TTGTTGCG	2164	GGGAGGGA	G	GGGCGGAG	4943
1353	CAGAGAGG	GGTAGCTAACAAAGA	GGGAGGCG	2165	GGGCGGAG	G	GGGCGGCG	4944
1358	GGGCGGAG	GGTAGCTAACAAAGA	AGGAGGCT	2166	AGGAGGCT	G	GGGCGGCG	4945
1361	GGGCGGCG	GGTAGCTAACAAAGA	CAGAGGCG	2167	GGGCGGCG	G	GGGCGGCG	4946
1364	TTGAGGCG	GGTAGCTAACAAAGA	GGGAGGAG	2168	GGGAGGCG	G	GGGCGGGA	4947

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1380	GGCTGCTGT	GGCTAGCTACAAAGA	CTTGTGTC	2169	GGAGGAGG	A	ACACAGAC	4948
1382	GGGTCTGT	GGCTAGCTACAAAGA	GGCTCTGT	2170	AGGAGGAC	A	ACACAGCC	4949
1386	ACGGGCTGT	GGCTAGCTACAAAGA	CTTGTCTG	2171	GAACACAG	A	ACCTCTGT	4950
1392	CAAGGCGAC	GGCTAGCTACAAAGA	GGGGGCTGT	2172	AGACCGCC	G	GGGGGCTG	4951
1395	CACGAGCC	GGCTAGCTACAAAGA	GGGGGGGG	2173	CTTGTGTC	G	GGGGGGGG	4952
1400	AGTTTAC	GGCTAGCTACAAAGA	CAAGGAC	2174	GUGGCTG	G	GUGGAGCT	4953
1402	CGAGCTGC	GGCTAGCTACAAAGA	ATCAAGGAG	2175	CGCTCGAG	G	GCAGGCTG	4954
1405	GAAGCGAC	GGCTAGCTACAAAGA	TGACCGAG	2176	CTGGGCGA	G	GGGGGCTG	4955
1408	GGGGGAGT	GGCTAGCTACAAAGA	AGCTGGAC	2177	GUGGAGCT	G	GGGGGGCC	4956
1413	GTGCTGTC	GGCTAGCTACAAAGA	GGAGGAGT	2178	GGTGTGTC	G	GGTGTGTG	4957
1417	TGCTGTGC	GGCTAGCTACAAAGA	TGGGGGAG	2179	CTGGGCGA	G	GCACAGCA	4958
1419	GTGGCTGT	GGCTAGCTACAAAGA	GTAGGAG	2180	CGGGCGAG	A	ACAGGAGC	4959
1422	GGGGCTGC	GGCTAGCTACAAAGA	TGAGCTGC	2181	CCAGGATA	G	GCAGGGCC	4960
1425	CTGGGGGC	GGCTAGCTACAAAGA	TGTGTGTC	2182	GCACAGCA	G	GTGTGTGG	4961
1428	ACAGCTGC	GGCTAGCTACAAAGA	TAGGAGCT	2183	AGTGTGTC	G	GCAGGGCT	4962
1430	CGGTACAT	GGCTAGCTACAAAGA	CTGGGAG	2184	CTGGGGAG	G	GGGTATAG	4963
1438	AGGGCTAC	GGCTAGCTACAAAGA	AGTTGCGA	2185	GGACAGCT	G	GUACGGCT	4964
1440	GAGGGCTG	GGCTAGCTACAAAGA	AGAGCTGC	2186	GCAGGGCT	A	ACGGCTGC	4965
1443	CAAGAGCT	GGCTAGCTACAAAGA	CTTGTGTC	2187	GGGGGAGG	G	GGTGTGTC	4966
1446	GGGGGAG	GGCTAGCTACAAAGA	GAGGCTGT	2188	ATGGGCTG	G	GGGGGAGG	4967
1450	AGGGGCTG	GGCTAGCTACAAAGA	AGAGGCTG	2189	GGTGTGTC	G	GGGGGGCT	4968
1454	AGGGAGCT	GGCTAGCTACAAAGA	GGGAGGCA	2190	GGGGGAGG	G	GGGGGCTG	4969
1458	GGGAGGCT	GGCTAGCTACAAAGA	AGGGGCTG	2191	GGGAGGCT	G	GGGGGGCT	4970
1462	GGGGGCTG	GGCTAGCTACAAAGA	ATGGGCTG	2192	GGTGTGTC	G	GGGGGGGG	4971
1464	GGGGGCTG	GGCTAGCTACAAAGA	GGGAGGAG	2193	GGGGGCTG	G	GGGGGGCT	4972
1468	GGAGGAGC	GGCTAGCTACAAAGA	GGGGGAGG	2194	CTGGGCTG	G	GGGGGGCT	4973
1472	GGGGGCTG	GGCTAGCTACAAAGA	GGGGGGCT	2195	GGTGTGTC	G	GGGGGGCT	4974
1474	CTGGGGCT	GGCTAGCTACAAAGA	AGAGGCTG	2196	GGGGGGGG	G	GGGGGGCT	4975
1482	GGAGGAGC	GGCTAGCTACAAAGA	CTGGGGCT	2197	GGGGGCTG	G	GGGGGGCT	4976
1491	GGGGGAGC	GGCTAGCTACAAAGA	GGGGGAGG	2198	GGGGGGGG	G	GGGGGGCT	4977
1498	GGTGTGTC	GGCTAGCTACAAAGA	CTGGGGCT	2199	GGGGGGGG	G	GCACAGCT	4978

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1509	TTCTTTGT GGTATGCTAACAAAG A GTTGTGAG	2200	GUCCAGGC A ACAACGAA	4979
1503	GGGTCGT GGTATGCTAACAAAG A TGTGCTG	2201	CAGGCACA A ACGAAGC	4980
1507	AGGGGCGT GGTATGCTAACAAAG A TGTGCTG	2202	CACAACCA A ACGGCGC	4981
1509	GAAGGCGT GGTATGCTAACAAAG A GTTGTGAG	2203	CAACGAC G GTCGCUU	4982
1512	GAGGAGG GGTATGCTAACAAAG A GGTGCTG	2204	CGACGCG G GCUUCCG	4983
1524	CTTGCTGT GGTATGCTAACAAAG A TGTGCTG	2205	CTTCAGG A ACACCAAG	4984
1526	TTCTTGT GGTATGCTAACAAAG A GTTGTGAG	2206	GTAGGAG A ACACAGAA	4985
1534	AGAGGAG GGTATGCTAACAAAG A TGTGCTG	2207	ACCAAGAA G GUUCAUC	4986
1536	AGGAGAT GGTATGCTAACAAAG A GGTGCTG	2208	ATATTTT A ATTTCCT	4987
1552	TGATATG GGTATGCTAACAAAG A TGTGCTG	2209	CTGAGGAA G GTATGCTA	4988
1554	CTTGGCAT GGTATGCTAACAAAG A GTTGTGAG	2210	GGGAGAG A AGACGAG	4989
1556	AGTTGCG GGTATGCTAACAAAG A TGTGCTG	2211	GTAACTAU G GTCAGTCU	4990
1561	GGAGGCG GGTATGCTAACAAAG A TGTGCTG	2212	CAUGGCAA G GTTCUCC	4991
1567	CTTGACG GGTATGCTAACAAAG A GGTGCTG	2213	AGTTTCC G GCTGAGG	4992
1570	GTCTTGC GGTATGCTAACAAAG A AGTGAAG	2214	GUUUUGU G GCAAGAGC	4993
1576	ACTGACG GGTATGCTAACAAAG A TGTGCTG	2215	CTGCAAGG A GTTCACGU	4994
1580	TTCAAGT GGTATGCTAACAAAG A GGTGCTG	2216	AGGAGUG A ACGUGGAA	4995
1582	TTTTCGC GGTATGCTAACAAAG A GTTGTGAG	2217	GAGCTAC G GUGGAGG	4996
1589	AGGTCAT GGTATGCTAACAAAG A GTTGTGAG	2218	CGUGGAG A AUGAGCGU	4997
1593	CGGACGT GGTATGCTAACAAAG A TGTGCTG	2219	GAAGTGA G GTAGGAGG	4998
1596	TGCTGAG GGTATGCTAACAAAG A GTTGTGAG	2220	AGAGAGG G GTCGCTG	4999
1597	AGTCCGC GGTATGCTAACAAAG A AGTTCAT	2221	AUGAAGG G GCGGGACU	5000
1602	AGGACAT GGTATGCTAACAAAG A GGTGCTG	2222	GTGCGGG A ACTGTCU	5001
1605	CTAAGCG GGTATGCTAACAAAG A GTTGTGAG	2223	GAGGAGT G GCGCUUGG	5002
1607	AGGAGAG GGTATGCTAACAAAG A GTTGTGAG	2224	GGGCTGC G GCTTCTG	5003
1612	TGAGGAG GGTATGCTAACAAAG A GGTGCTG	2225	UGGCUUG G GCTATCTA	5004
1615	CTTGTGT GGTATGCTAACAAAG A AGGAGAG	2226	G TTTGCTU G TGTGAGG	5005
1617	GCTCTGC GGTATGCTAACAAAG A GGTGCTG	2227	TTGCTGC G GCAGGAGC	5006
1623	CCCTGGG GGTATGCTAACAAAG A TGTGCTG	2228	G TGTGAGG A GTTCAGGG	5007
1625	CACTGAG GGTATGCTAACAAAG A GTTGTGAG	2229	GTGAGGG G GTTCTCG	5008
1625	AACAGAG GGTATGCTAACAAAG A CAAGGAT	2230	AGGAGUG G GTTGTGCU	5009

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1636	GCGAAGAC GGCCTAGCTACAAAGG AAGCAGAC	2231	GGGAGAGG G GGGGAGCG	5010
1640	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2232	GGGAGAGG G GGGGAGCG	5011
1646	TGCGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2233	GGGAGAGG G GGGGAGCG	5012
1649	TGCGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2234	GGGAGAGG G GGGGAGCG	5013
1654	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2235	GGGAGAGG G GGGGAGCG	5014
1656	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2236	GGGAGAGG A AAGGAGCG	5015
1659	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2237	AGGAGAGG G GGGGAGCG	5016
1663	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2238	GAGGAGG G GGGGAGCG	5017
1665	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2239	GAGGAGG G GGGGAGCG	5018
1673	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2240	GAGGAGG A AAGGAGCG	5019
1679	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2241	AGGAGAGG G GGGGAGCG	5020
1684	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2242	GAGGAGG A GGGGAGCG	5021
1690	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2243	AGGAGAGG G GGGGAGCG	5022
1692	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2244	GAGGAGG A AAGGAGCG	5023
1696	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2245	GAGGAGG G GGGGAGCG	5024
1700	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2246	AGGAGAGG A AAGGAGCG	5025
1704	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2247	GAGGAGG A GGGGAGCG	5026
1706	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2248	GAGGAGG G GGGGAGCG	5027
1709	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2249	AGGAGAGG G GGGGAGCG	5028
1710	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2250	GAGGAGG A AAGGAGCG	5029
1712	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2251	GAGGAGG G GGGGAGCG	5030
1715	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2252	GAGGAGG G GGGGAGCG	5031
1720	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2253	GAGGAGG G GGGGAGCG	5032
1723	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2254	GAGGAGG G GGGGAGCG	5033
1729	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2255	GAGGAGG G GGGGAGCG	5034
1740	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2256	GGGAGAGG A AAGGAGCG	5035
1742	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2257	GGGAGAGG G GGGGAGCG	5036
1745	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2258	GGGAGAGG A AAGGAGCG	5037
1751	AGGAGAGG GGCCTAGCTACAAAGG AAGCAGAC	2259	GAGGAGG A AAGGAGCG	5038
1754	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2260	GAGGAGG A AAGGAGCG	5039
1756	GAGGAGAG GGCCTAGCTACAAAGG AAGCAGAC	2261	GAGGAGG G GGGGAGCG	5040

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1767	GAGGCTGT	GGCTAGCTTAAAGGGA	TTTTTTGA	2262	TCAAAAAGA A	ACAGGCUC	5041
1771	AAAAGAGC	GGCTAGCTTAAAGGGA	CTGTTCTT	2263	AAAGACAG G	GGCCUUUU	5042
1782	CTTCGGGT	GGCTAGCTTAAAGGGA	AGAAAAAG	2264	CTTJUTCU A	ACCGGAAG	5043
1791	GAAGATAT	GGCTAGCTTAAAGGGA	TCTTCGGG	2265	CCGGAGAG G	GUGUCUGG	5044
1793	CTCCAGAC	GGCTAGCTTAAAGGGA	ACTCTTCC	2266	GGAAAGAG G	GUCUGGAG	5045
1800	CAACCTGT	GGCTAGCTTAAAGGGA	TCCAGAGA	2267	UGGCTTGA G	GCAAGGUG	5046
1804	TTTCAGAC	GGCTAGCTTAAAGGGA	TTGTTTGA	2268	TGGAGTAA G	GTUCCAAA	5047
1807	TGCTTTGC	GGCTAGCTTAAAGGGA	AACCTGCT	2269	AGCAAGGU G	GGAAAAGA	5048
1812	TGCAATGT	GGCTAGCTTAAAGGGA	TTTGGCAC	2270	GTGGTAAA G	GGAUUGGA	5049
1814	ATTCAGAT	GGCTAGCTTAAAGGGA	CTTTTGGC	2271	TCCAAAGT A	ATTGCGAT	5050
1820	TGTCGTAT	GGCTAGCTTAAAGGGA	TCCAAAGG	2272	CCATTGTA A	ATTATAGA	5051
1825	AGTCTTGT	GGCTAGCTTAAAGGGA	CTGATTCG	2273	GGAAUCAG A	ACAGCACU	5052
1828	TCAAATGC	GGCTAGCTTAAAGGGA	TGTTTGAT	2274	AUCAGAGA G	GCACUUGA	5053
1830	CTTTAAAT	GGCTAGCTTAAAGGGA	CTTTCTGG	2275	CGAGTAGC A	ACTTGAAG	5054
1841	AGCTGAGC	GGCTAGCTTAAAGGGA	TCTTTTGA	2276	UGAAGAGG G	GUGCAGCU	5055
1843	GGAGGTCG	GGCTAGCTTAAAGGGA	AAGCTCTT	2277	AAATATGG G	GTATAGGG	5056
1846	CGGCGAGC	GGCTAGCTTAAAGGGA	TGCAAGCT	2278	AGCTTGTGA G	GTTCAGCT	5057
1849	GTCTGGGT	GGCTAGCTTAAAGGGA	ATTTTATC	2279	GTGCTAGCT G	GGGGAGGC	5058
1855	CGGAGAGC	GGCTAGCTTAAAGGGA	TGCGGAGG	2280	CGCGGGGA G	GGTCTGGG	5059
1856	CTTCTGAT	GGCTAGCTTAAAGGGA	AGTTTATG	2281	CGGGAAGG G	GGCTTAACT	5060
1865	ACCTCTGC	GGCTAGCTTAAAGGGA	TTTCTGAC	2282	UGATAGAA G	GCAGAGGU	5061
1871	TGCTCTGC	GGCTAGCTTAAAGGGA	CTCTGCTT	2283	AAAGTAGG G	GGCAGGCA	5062
1876	GATCTCTG	GGCTAGCTTAAAGGGA	CTTACCTC	2284	GAGGUCAG G	GCAGCAUC	5063
1879	CTTGTATG	GGCTAGCTTAAAGGGA	TGCTTGAC	2285	GUCAGGCA G	GCACCGGG	5064
1881	TTTCTGAT	GGCTAGCTTAAAGGGA	CTTCTCTG	2286	CAAGCTAGT A	AATCGTAA	5065
1889	GGCTCTGC	GGCTAGCTTAAAGGGA	TTTCTGGAT	2287	AATTAAGAA G	GGTATAGC	5066
1894	GGCGGGGC	GGCTAGCTTAAAGGGA	CTGCTTTC	2288	GAAGCTAG G	GGCCGGCC	5067
1898	AGTAAGGG	GGCTAGCTTAAAGGGA	GGGCTTGG	2289	TCAGGCTG G	GGCCGGGU	5068
1903	ACTCTAGG	GGCTAGCTTAAAGGGA	ATTAATAG	2290	CGCGCTAT G	GCUGAGGU	5069
1907	CTGCAAGT	GGCTAGCTTAAAGGGA	CAATATAG	2291	CCCGCTGG A	ACGUCAG	5070
1909	GTCTGGAC	GGCTAGCTTAAAGGGA	GTGAGTAG	2292	CGGCTGAC G	GUCCAGAC	5071



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1915	AGGAGAGT GGTAGCTACAAAGA GTGAGAGT	2293	ACGGCTAG A ATTCGCGC	5072
1920	GATGAAAG GGTAGCTACAAAGA GAAATCTG	2294	CAGATGAG G GCGGCAAC	5073
1925	TTGAGAGT GGTAGCTACAAAGA GAAAGTGA	2295	UUGGCTG A ATGCCCAA	5074
1933	CGTLAGAG GGTAGCTACAAAGA TTGAGGAT	2296	AATCCAA G GCGGAGG	5075
1938	CAGAGAGT GGTAGCTACAAAGA CAGGCTTG	2297	CAAGCCUG A ACGGCGUG	5076
1942	GAGAGAGT GGTAGCTACAAAGA AGGTLAGG	2298	GATGAGG G GATGAGAG	5077
1945	TGGGCGG GGTAGCTACAAAGA AAGGAGTC	2299	GATGAGG G GCGGCTGA	5078
1948	CAATGAGT GGTAGCTACAAAGA GATGAGTC	2300	GCGCTGAG G GCGGATGG	5079
1952	TTGAGAGT GGTAGCTACAAAGA GAGGCTGA	2301	UGGCGCGG A AUGGAGAA	5080
1955	AGGTTCAG GGTAGCTACAAAGA AAGGAGTC	2302	GCGTGAAG G GUGAGCAU	5081
1959	GTCATAGT GGTAGCTACAAAGA TTAGAATC	2303	GATGAGG A ACGGGGAC	5082
1961	TAGTCCAT GGTAGCTACAAAGA GTTCACAA	2304	UUGGAGG A AUGGAGUA	5083
1965	GAGGTAGT GGTAGCTACAAAGA GATGCTTC	2305	GAACATAG A ACTAGGCT	5084
1968	CAGGAGCT GGTAGCTACAAAGA AGCTATTC	2306	CATGAGG A AGGCTGUG	5085
1970	GATGAGAG GGTAGCTACAAAGA GATGAGTC	2307	UGGATGAG G GUGGCGGG	5086
1973	GTCATAGT GGTAGCTACAAAGA GATGAGTC	2308	ACTAGGAG G GCGGAGG	5087
1979	GATGAGAG GGTAGCTACAAAGA TTAGAATC	2309	UUGGAGG A GCGGAGCT	5088
1985	UAGAGAGT GGTAGCTACAAAGA TTAGGCTC	2310	GAGGAGG A AGGCTGAG	5089
1987	TGGGAGAG GGTAGCTACAAAGA GTTCTAGC	2311	GCGGAGG G GATGAGCA	5090
1992	TTCTCTAG GGTAGCTACAAAGA TTAGGCTC	2312	AAGGCTG G GCGGAGG	5091
2006	UGTCTAGT GGTAGCTACAAAGA CCTCTTTT	2313	AAAAGAGG G GCGGAGG	5092
2011	TGAGAGAG GGTAGCTACAAAGA TTAGGCTC	2314	AGGAGGAG G GCGGAGG	5093
2013	GATGAGAG GGTAGCTACAAAGA GCTGAGAG	2315	GATGAGG G GCGGAGG	5094
2018	GTGAGAGT GGTAGCTACAAAGA GATGAGTC	2316	AGGCTGAG A ACTGAGAG	5095
2027	GATGAGAG GGTAGCTACAAAGA GCTGAGAG	2317	GATGAGG G GCGGAGG	5096
2033	AAGAGTGA GGTAGCTACAAAGA GCTGAGAG	2318	GATGAGG G GCGGAGG	5097
2035	TGAGAGAG GGTAGCTACAAAGA GCTGAGAG	2319	GUGAGAGG A ACTGAGCA	5098
2038	GATGAGAG GGTAGCTACAAAGA AGTCTGCT	2320	AAGGAGG G GATGAGG	5099
2043	GATGAGAG GGTAGCTACAAAGA TTAGGAGT	2321	AGGCTGAG G GCGGAGG	5100
2045	TGAGAGAG GGTAGCTACAAAGA GCTGAGAG	2322	UUGGAGG G GCGGAGG	5101
2047	AGTGAAGT GGTAGCTACAAAGA AGGAGAG	2323	ITGAGAGG G GCGGAGG	5102

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2052	CTCTAGT	GCTAGCTACAAAG	TAAAGAG	2324	CGAGGATCA A AATACGAG	5103
2055	CGCTCTGTT	GCTAGCTACAAAG	ASTGAGC	2325	GCCTAACT A ACGAGGG	5104
2059	CTCTCTGCT	GCTAGCTACAAAG	TGCTATTT	2326	AATTAACA G GCGGAGC	5105
2063	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2327	ACTAATAG G GCTATGCT	5106
2065	GGCTCTGCT	GCTAGCTACAAAG	GCTCTCT	2328	GAAGGAGG G GCGGAGC	5107
2068	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2329	CGCTCTGCT G GCGGAGC	5108
2070	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2330	CGCTCTGCT G GCGGAGC	5109
2076	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2331	CGCTCTGCT G GCGGAGC	5110
2085	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2332	CGCTCTGCT G GCGGAGC	5111
2087	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2333	CGCTCTGCT G GCGGAGC	5112
2092	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2334	CGCTCTGCT G GCGGAGC	5113
2095	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2335	CGCTCTGCT G GCGGAGC	5114
2100	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2336	CGCTCTGCT G GCGGAGC	5115
2106	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2337	CGCTCTGCT G GCGGAGC	5116
2109	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2338	CGCTCTGCT G GCGGAGC	5117
2111	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2339	CGCTCTGCT G GCGGAGC	5118
2115	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2340	CGCTCTGCT G GCGGAGC	5119
2120	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2341	CGCTCTGCT G GCGGAGC	5120
2125	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2342	CGCTCTGCT G GCGGAGC	5121
2127	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2343	CGCTCTGCT G GCGGAGC	5122
2129	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2344	CGCTCTGCT G GCGGAGC	5123
2135	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2345	CGCTCTGCT G GCGGAGC	5124
2137	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2346	CGCTCTGCT G GCGGAGC	5125
2140	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2347	CGCTCTGCT G GCGGAGC	5126
2142	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2348	CGCTCTGCT G GCGGAGC	5127
2144	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2349	CGCTCTGCT G GCGGAGC	5128
2146	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2350	CGCTCTGCT G GCGGAGC	5129
2150	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2351	CGCTCTGCT G GCGGAGC	5130
2157	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2352	CGCTCTGCT G GCGGAGC	5131
2161	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2353	CGCTCTGCT G GCGGAGC	5132
2164	CGCTCTGCT	GCTAGCTACAAAG	CTCTCTG	2354	CGCTCTGCT G GCGGAGC	5133

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2170	AGTACAGC GGTAGCTACAAAGA TCAAGGCG	2355	CCGCTGGA G GCGUACU	5134
2173	CAAAAGTAC GGTAGCTACAAAGA AGTTCAGG	2356	CCUGAGCU G GUACUUUG	5135
2175	GACAAAGT GGTAGCTACAAAGA ACACATCA	2357	UGAGCTGT A ACCTGGUC	5136
2180	ACCTTGAC GGTAGCTACAAAGA AAAATACA	2358	UGUACUUU G GUCAAGGU	5137
2186	ACAATCAC GGTAGCTACAAAGA CTTCACAA	2359	UHGHCAG G GUGGAGU	5138
2190	GCATACAT GGTAGCTACAAAGA CCACTTGG	2360	CAAGGUGG A AUGUGAGG	5139
2192	CGGCTCAC GGTAGCTACAAAGA ATTACACT	2361	AGGUGGAAU G GGTATGAA	5140
2195	GGGCGUGT GGTAGCTACAAAGA CACATCCA	2362	UGGATGAGG A ACGGGGCG	5141
2199	GTAGGCTG GGTAGCTACAAAGA GATATACA	2363	UGUGACGG G GGTGAGAC	5142
2201	TGCTACGC GGTAGCTACAAAGA GATGCTCA	2364	USACGGGT G GGGATGGA	5143
2202	TGCTGTAC GGTAGCTACAAAGA GGGGCTGT	2365	ACTGGGCG G GTACGACA	5144
2205	CGTGTCTGT GGTAGCTACAAAGA AATGAGGC	2366	GGGCGCGG A ACGACACC	5145
2208	GATGGTGT GGTAGCTACAAAGA GTTAGGUG	2367	CGCGUAGG A ACACCAUC	5146
2210	GGATGTGT GGTAGCTACAAAGA GGTATAGT	2368	GGUACGAT A ACCAATTC	5147
2213	TGATATGT GGTAGCTACAAAGA GGTGTGTT	2369	ACGACAGC A ACGCCCGA	5148
2222	GAGCTGTGT GGTAGCTACAAAGA GTTATGTT	2370	CCCCGAGG A ACAGGGUC	5149
2227	CGGTGAGC GGTAGCTACAAAGA CTGTCCTG	2371	CAGGACAG G GCUACAGG	5150
2231	ACTCTGTT GGTAGCTACAAAGA GAGTCTGT	2372	ATATATTC A ACGGAGGU	5151
2237	GGGATGAT GGTAGCTACAAAGA CTTCGTGA	2373	UGACGGAG G GUCAATGC	5152
2240	CTGCTGAT GGTAGCTACAAAGA GATCTCTG	2374	CGGAGGUC A ATGGGCTAG	5153
2243	ATGCTGCG GGTAGCTACAAAGA GATTAATC	2375	AGGTCACG G GCGAGCGU	5154
2247	GATATATC GGTAGCTACAAAGA TGGGATAG	2376	CAUGGCGA G GCAUCAUC	5155
2249	TTCATGAT GGTAGCTACAAAGA GCTGGGGA	2377	UGGTCAGC A AUCAUCAA	5156
2252	GGTTTGAT GGTAGCTACAAAGA GATGCTGG	2378	CCAGCTATC A AUCAAACC	5157
2257	TCTGCTGT GGTAGCTACAAAGA TTATATGAT	2379	AUCAUCA A ACGCCAGA	5158
2265	GTATCTGT GGTAGCTACAAAGA TCTGAGGT	2380	ACCCGAGA A ACATGGAC	5159
2267	CACTACGT GGTAGCTACAAAGA GTTCTGCG	2381	CCGAGAAC A ACBUACUG	5160
2269	UGATATAC GGTAGCTACAAAGA GTGTCTTG	2382	CAGAACAC G GUACUGGG	5161
2271	CACTAGT GGTAGCTACAAAGA ACGTCTTC	2383	GAACAGGU A ACUGCGUG	5162
2274	ACGACGCG GGTAGCTACAAAGA AGTATGTC	2384	CAGUACU G GGTGCGGU	5163
2276	UGACGCAC GGTAGCTACAAAGA GCAATACG	2385	CGUACUGC G GUGCGGUG	5164

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2273	AGGAGGAC GGTATGCTACAGGA AGGAGTA	2386	UACUGGAG G GGGGGGU	5165
2280	ATACGAGC GGTATGCTACAGGA GGTAGGAG	2387	CTAGGAGC G GGTAGGAG	5166
2284	GGGAGGAC GGTATGCTACAGGA GGTAGGAG	2388	GUGGAGG G GGTAGGAG	5167
2286	CAGGAGGAC GGTATGCTACAGGA AGGAGG	2389	GGTAGGAG A AUGGAGG	5168
2289	AGGAGGAG GGTATGCTACAGGA ATAGGAG	2390	GUGGAGG G GGTAGGAG	5169
2291	GGGAGGAC GGTATGCTACAGGA GGTAGGAG	2391	GGTAGGAG G GGTAGGAG	5170
2294	TTCTAGGAC GGTATGCTACAGGA CAGGAGG	2392	AUGGAGG G GGTAGGAG	5171
2302	TGGAGGAG GGTATGCTACAGGA GTTCTAGG	2393	UCCAGGAG G GGTAGGAG	5172
2306	GGTAGGAG GGTATGCTACAGGA GGTAGGAG	2394	AGGAGGAG G GGTAGGAG	5173
2310	GGGAGGAC GGTATGCTACAGGA GGTAGGAG	2395	GGGAGGAG A AUGGAGG	5174
2314	GGGAGGAC GGTATGCTACAGGA GGTAGGAG	2396	GGGAGGAG G GGTAGGAG	5175
2316	GGGAGGAC GGTATGCTACAGGA GGTAGGAG	2397	GGGAGGAG A AUGGAGG	5176
2319	GGGAGGAC GGTATGCTACAGGA GGTAGGAG	2398	AUGGAGGAG G GGTAGGAG	5177
2322	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2399	GGGAGGAG G GGTAGGAG	5178
2327	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2400	GGGAGGAG G GGTAGGAG	5179
2337	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2401	GGGAGGAG G GGTAGGAG	5180
2340	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2402	GGGAGGAG A AUGGAGG	5181
2342	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2403	GGGAGGAG G GGTAGGAG	5182
2349	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2404	GGGAGGAG A AUGGAGG	5183
2354	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2405	GGGAGGAG A AUGGAGG	5184
2358	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2406	GGGAGGAG A AUGGAGG	5185
2365	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2407	GGGAGGAG G GGTAGGAG	5186
2368	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2408	GGGAGGAG G GGTAGGAG	5187
2370	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2409	GGGAGGAG A AUGGAGG	5188
2372	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2410	GGGAGGAG A AUGGAGG	5189
2374	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2411	GGGAGGAG G GGTAGGAG	5190
2377	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2412	GGGAGGAG A AUGGAGG	5191
2380	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2413	GGGAGGAG G GGTAGGAG	5192
2384	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2414	GGGAGGAG G GGTAGGAG	5193
2387	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2415	GGGAGGAG G GGTAGGAG	5194
2391	GGGAGGAG GGTATGCTACAGGA GGTAGGAG	2416	GGGAGGAG A AUGGAGG	5195

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2395	TCTCTGCG	GCGTAGGCTACAAAGG	AGGAGAGC	2417	GCTTACAU G	GCATGAGA	5196
2402	GCGTCTGT	GCTTATGTTATTAAGA	CTCTCTGA	2418	UGCAGGAG	A ACCAGCC	5197
2406	CAGCGGAG	GCGTAGTACAAAGA	TGCTCTGC	2419	GGAGATTA	G GCGCGCUG	5198
2410	CCCTCAGT	GCGTAGCTACAAAG	GCGCTGCT	2420	ATTAAGAU	G GCTTAGGG	5199
2415	GAGCGCAT	GCTTATTAAGAG	CGCTCAGC	2421	GCTTAGGG	A AGCTTCTT	5200
2420	ATTAAGAG	GCTTAGCTACAAAG	ATCTCTGA	2422	UGAGGGAU	G GCGGCGGU	5201
2423	AGCAGGAC	GCTTAGCTACAAAG	GCTTATTC	2423	CTTAGGCG	G CTCTTCA	5202
2426	TGAGAGAC	GCGTAGCTACAAAG	GAGGAGAT	2424	AUGCGGAT	G GCTTAGGA	5203
2429	TCTCTGAT	GCGTAGTACAAAG	GAGGAGAT	2425	CGGCTGAT	A AUGGAGCA	5204
2434	AGCTTTAT	GCGTAGCTACAAAG	TGCTATGAT	2426	GUCAUGGA	G GCAGAGGU	5205
2437	GAGGAGAG	GCTTAGCTACAAAG	CTCTCTGC	2427	CGAGTAGA	G CTCTCTGC	5206
2451	GAGCTGAT	GCGTAGCTACAAAG	CGAGGAGG	2428	CTCTCTGA	A ATTAGAGC	5207
2456	CTCTCTGC	GCTTAGCTACAAAG	CTCTATTC	2429	UGAAGGAG	G GCTTAGAG	5208
2460	GCTATTCG	GCGTAGCTACAAAG	TGCTCTGA	2430	UGAGGATA	G GCAGGAT	5209
2463	GAGGAGAT	GCTTAGCTACAAAG	GCTCTGCG	2431	GGCAGAGA	G GCGGCGGU	5210
2466	AGGAGGCG	GCTTAGCTACAAAG	GCTCTCTG	2432	CTTAGGAG	G GCTCTCTG	5211
2475	GAAGAGCT	GCTTAGCTACAAAG	CGAGAGAG	2433	CTCTCTGA	A AGGCGUUC	5212
2477	AGGAGGAC	GCGTAGCTACAAAG	GTCTAGGA	2434	UCCTCGAC	G GCTCTCTG	5213
2485	TGAGGCTG	GCTTAGCTACAAAG	ATTAAGAG	2435	CTCTCTGA	A AGCTTCCA	5214
2487	CATGAAGC	GCGTAGCTACAAAG	GTAGGAGG	2436	GUUUGUAC	G GCUUGAGG	5215
2492	TGGACAT	GCGTAGCTACAAAG	GAGGAGTA	2437	UAGCGUUC	A AUGGAGCA	5216
2494	GCTGCGGC	GCGTAGCTACAAAG	ATTAAGAG	2438	CGCTTCAU	G GCTTAGCC	5217
2496	GTCTCTGC	GCGTAGCTACAAAG	AGATGAGG	2439	CTCTAGGU	G GCGCCGAC	5218
2499	GCTCTGCT	GCTTAGCTACAAAG	GCTTATAT	2440	CTAGGATC	A ACCAGCC	5219
2502	CAGCGGCT	GCTTAGCTACAAAG	GCTCTGAC	2441	GUAGGAGC	A AUGGAGG	5220
2504	CGCAGGCG	GCGTAGCTACAAAG	GCTCTGAG	2442	CTTAGGAC	G GCTCTGCG	5221
2507	ATAGGAGT	GCGTAGCTACAAAG	GCTCTGCT	2443	ACCAGGCT	G GUGCGCAU	5222
2509	TCTATGCT	GCGTAGCTACAAAG	ATTAAGAG	2444	CAGCGCGU	G GCGCAUGA	5223
2511	CTCTCTGC	GCTTAGCTACAAAG	GCAGGCGG	2445	CGCGCTGC	G GCAUGATG	5224
2513	GCTCTGAT	GCTTAGCTACAAAG	GCGTAGCG	2446	CGGUGCGC	A AUGAGGGG	5225
2520	GCTCTGCT	GCTTAGCTACAAAG	GCTCTGAT	2447	CAUCAGGG	G GCAAGUCC	5226

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2524	GCTAGGAC GGTAGCTACAAAGCA TTGGGCT	2443	AGGAGTAA G GUCCAGG	5227
2529	CTGGACGT GGTAGCTACAAAGCA AATGATTG	2442	CAAGGAGU A AGGATGAG	5228
2531	CACTGGAC GGTAGCTACAAAGCA GTAGGACT	2450	AGTCCUAC G GUCCAGG	5229
2536	CCTGGGAC GGTAGCTACAAAGCA TGGAGCTA	2451	UAGGUGCA G GGTGACGG	5230
2538	GUUUGGGC GGTAGCTACAAAGCA AGTGGAGG	2452	CTGCTAGG G GGCAGGGG	5231
2540	TCCGCGGAT GGTAGCTACAAAGCA GAGTGGC	2453	GUCAAGGGG A AUCGAGGA	5232
2551	AGGCTCTG GGTAGCTACAAAGCA GAGGTTCC	2454	GGGATGCG G GGTGGGCG	5233
2556	GAGGAGGC GGTAGCTACAAAGCA GATGGGAG	2455	GUUAGAGG G GGTGATAC	5234
2561	GAGAGGAT GGTAGCTACAAAGCA GAGGCTCT	2456	AGGCGGCG A AUCGCGC	5235
2570	AGGAGGCT GGTAGCTACAAAGCA GAGGAGGA	2457	AGTGGCG A AGCGGCGC	5236
2572	AGGAGGCT GGTAGCTACAAAGCA GTGGGAGG	2458	CTCTGAGC G GGTAGGCG	5237
2575	TGCAGAGC GGTAGCTACAAAGCA AAGGTGGA	2459	UCCAGCGU G GGTGAGCA	5238
2580	CAGGCTGC GGTAGCTACAAAGCA AGAATAGC	2460	GUUAGGCG G GGCAGGCG	5239
2583	GCAGAGGC GGTAGCTACAAAGCA TGTAGTAGC	2461	GUUUGGGA G GCGGUGGC	5240
2587	GCTAGGAC GGTAGCTACAAAGCA AGGTAGCA	2462	UGGAGGCG T GCGGUGAG	5241
2589	GUUAGTAGC GGTAGCTACAAAGCA AGAGGCTG	2463	CAGGCTCG G GGTAGGCG	5242
2592	GTGCGGCT GGTAGCTACAAAGCA AGAGAGG	2464	AGGCGGCG A AGGCGGAC	5243
2595	GATGTGCG GGTAGCTACAAAGCA GTTAGTAGC	2465	GUUAGAGC G GGCAGAGG	5244
2599	GGGAGGCT GGTAGCTACAAAGCA GGGGCTAG	2466	GTAGGCGCG A AGATGAG	5245
2600	TCTGCTAT GGTAGCTACAAAGCA GTTAGGCT	2467	AGGCGGAC A AUGGAGAA	5246
2607	CAGCTGCT GGTAGCTACAAAGCA TTCTGCTG	2468	CAUGGAGCA A ACAAGCGG	5247
2611	CAACAGCG GGTAGCTACAAAGCA TTGTTCTC	2469	GAGAGCAA G GCGGCTG	5248
2614	GTGCAAGC GGTAGCTACAAAGCA AGCTGCTT	2470	AACAAGCG G GUUGCGG	5249
2618	ATGCTGCG GGTAGCTACAAAGCA AAACAGCT	2471	AGTGGGCG G GCGGCGAT	5250
2624	GUUAGGCT GGTAGCTACAAAGCA GUUAGGAA	2472	TTAGGCGG A ATTGCGCG	5251
2629	GTGCTGCG GGTAGCTACAAAGCA GAGTCTCC	2473	GGGATGCG G GGTGAGCG	5252
2634	CAGGCTCT GGTAGCTACAAAGCA TGGGCGCA	2474	UGGCTGGG A AGGCGGCG	5253
2639	GGAGAGCG GGTAGCTACAAAGCA GGGGCGCG	2475	GGGAGGCG G GGTGTTCC	5254
2641	GCAGAGAG GGTAGCTACAAAGCA AGGCTGTC	2476	CAGGAGCG G GGTGTTGC	5255
2647	UGAGAGCG GGTAGCTACAAAGCA AAGAGCAG	2477	CGGCGGCG G GCGTUGCG	5256
2649	CAGCAAGC GGTAGCTACAAAGCA GGTAGTAGC	2478	GUUCCGCG G GGTGCGG	5257

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2654	TUATGCGC GGTAGCTACAAAGG CAAAGGGA	2473	UGGCUUUG G GGGGAAGA	5258
2658	GAAATCAT GGCTAGCTACAAAG CCAACAAA	2480	TUUGGKGG A AUGAUUUC	5259
2661	CAAGAAAT GGCTAGCTACAAAG CATCCAC	2481	GGUGGAUG A AUUUCUUG	5260
2668	TUAAACAC GGTAGCTACAAAG AAGAAATC	2482	GAUUCUU G GGTGUGA	5261
2672	GGTGTATC GGTAGCTACAAAG CAAAGAGA	2483	UGUUGUG G GUGAGAC	5262
2675	TGAGGUTG GGTAGCTACAAAG CACCAAGA	2484	UATGKGG A ACAGGGA	5263
2677	GCTAGGCT GGTAGCTACAAAG GTCAACCA	2485	UGGUGGAC A ACCUCACC	5264
2682	GCTAGGCT GGTAGCTACAAAG GAGGTGTC	2486	GACACUUG A ACUGACCC	5265
2687	GCTAGGCT GGTAGCTACAAAG GAGGTGAG	2487	GUACCUUG A ACCCAGGC	5266
2691	TCTCGGCT GGTAGCTACAAAG GGTGAGG	2488	GUUACUUG A ACCGGAAA	5267
2693	GCTTTCGC GGTAGCTACAAAG GTGAGTGA	2489	UGACGAG G GCGAAAA	5268
2699	AGGAAGCT GGTAGCTACAAAG GTTGAGCT	2490	AGGAGGA A ACCTTCCU	5269
2711	ACGAGGCT GGTAGCTACAAAG CCTGAGGA	2491	UCCUCAGG A ACCCUGGU	5270
2717	CCTCGGAC GGTAGCTACAAAG CAGGCTCC	2492	AAAGUUG G GUUGGAGG	5271
2724	AGGAGGAC GGTAGCTACAAAG CTAGAGAC	2493	GGUUGGAG G GUGGCUUC	5272
2726	GCAGGAC GGTAGCTACAAAG AATCTGGA	2494	UCCGAGGU G GUGCCUGA	5273
2734	AGGACATC GGTAGCTACAAAG TTAGAGGAC	2495	GUUCCUGA G GUAGGACU	5274
2736	GTAGGCTC GGTAGCTACAAAG ACCTAGGG	2496	UCCGAGGU A AUGGCGGC	5275
2739	CAGGAGGC GGTAGCTACAAAG CATGCTCA	2497	UGAGGAG G GCGGCGUG	5276
2742	CAGGAGGC GGTAGCTACAAAG AGGCATAC	2498	GUAGGAG G GCGGCGUG	5277
2744	TTACACAC GGTAGCTACAAAG GTAGGCCAI	2499	AUGGCGG G GUGGUGAA	5278
2747	AAGTCCAC GGTAGCTACAAAG CAGGACGC	2500	GCGGCGUG G GUGAACUU	5279
2751	UGGAGGCT GGTAGCTACAAAG TTAGTAGG	2501	GUGGUGGA A ATTGCTGG	5280
2755	TCTTCGCG GGTAGCTACAAAG AAGTTTAC	2502	GUGAACUU G GCGGAGAA	5281
2762	AGGACTCT GGTAGCTACAAAG CTTCGCGA	2503	GGGAGAG A ACATKGG	5282
2765	TUAAACAC GGTAGCTACAAAG TGTCTTCC	2504	GGAAGACA G GUGGUGAA	5283
2768	AAGTCCAC GGTAGCTACAAAG CACGTCTC	2505	AGACAGUG G GUGAACUU	5284
2772	AGGGAAGT GGTAGCTACAAAG TCACCACT	2506	AGUGGUGA A ACUUCGCC	5285
2780	TCTTCTAC GGTAGCTACAAAG AGGAAAGT	2507	ACUUCGCC G GUGAGAGA	5286
2787	GGCTCGCT GGTAGCTACAAAG CTCTTACA	2508	UGAGAGG A ACCAGGCC	5287
2792	GCTAGGCT GGTAGCTACAAAG CTCTCTCT	2509	AAGACGAG G GCGGCGGG	5288

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2799	GCTGCTAC	GCTGCTAC	GCTGCTAC	4510	GGGCGGAG	GCTGCTAC	5299
2802	AGCCCTGT	GCTGCTAC	GCTGCTAC	4511	GCTGCTAC	GCTGCTAC	5290
2804	AAAGGCTT	GCTGCTAC	GCTGCTAC	4512	GCTGCTAC	GCTGCTAC	5291
2807	ACAAAGCC	GCTGCTAC	GCTGCTAC	4513	GCTGCTAC	GCTGCTAC	5292
2813	ATCTGAAC	GCTGCTAC	GCTGCTAC	4514	GCTGCTAC	GCTGCTAC	5293
2819	GCTGCTAC	GCTGCTAC	GCTGCTAC	4515	GCTGCTAC	GCTGCTAC	5294
2821	GCTGCTAC	GCTGCTAC	GCTGCTAC	4516	GCTGCTAC	GCTGCTAC	5295
2825	GCTGCTAC	GCTGCTAC	GCTGCTAC	4517	GCTGCTAC	GCTGCTAC	5296
2829	TAGGCTGT	GCTGCTAC	GCTGCTAC	4518	GCTGCTAC	GCTGCTAC	5297
2832	GCTGCTAC	GCTGCTAC	GCTGCTAC	4519	GCTGCTAC	GCTGCTAC	5298
2836	AGGCTGAT	GCTGCTAC	GCTGCTAC	4520	GCTGCTAC	GCTGCTAC	5299
2845	GCTGCTAC	GCTGCTAC	GCTGCTAC	4521	GCTGCTAC	GCTGCTAC	5300
2847	GCTGCTAC	GCTGCTAC	GCTGCTAC	4522	GCTGCTAC	GCTGCTAC	5301
2850	GCTGCTAC	GCTGCTAC	GCTGCTAC	4523	GCTGCTAC	GCTGCTAC	5302
2854	GCTGCTAC	GCTGCTAC	GCTGCTAC	4524	GCTGCTAC	GCTGCTAC	5303
2857	TCTGCTAC	GCTGCTAC	GCTGCTAC	4525	GCTGCTAC	GCTGCTAC	5304
2862	GCTGCTAC	GCTGCTAC	GCTGCTAC	4526	GCTGCTAC	GCTGCTAC	5305
2864	GCTGCTAC	GCTGCTAC	GCTGCTAC	4527	GCTGCTAC	GCTGCTAC	5306
2870	TCTGCTAC	GCTGCTAC	GCTGCTAC	4528	GCTGCTAC	GCTGCTAC	5307
2879	GCTGCTAC	GCTGCTAC	GCTGCTAC	4529	GCTGCTAC	GCTGCTAC	5308
2881	GCTGCTAC	GCTGCTAC	GCTGCTAC	4530	GCTGCTAC	GCTGCTAC	5309
2886	GCTGCTAC	GCTGCTAC	GCTGCTAC	4531	GCTGCTAC	GCTGCTAC	5310
2889	GCTGCTAC	GCTGCTAC	GCTGCTAC	4532	GCTGCTAC	GCTGCTAC	5311
2892	GCTGCTAC	GCTGCTAC	GCTGCTAC	4533	GCTGCTAC	GCTGCTAC	5312
2898	GCTGCTAC	GCTGCTAC	GCTGCTAC	4534	GCTGCTAC	GCTGCTAC	5313
2901	GCTGCTAC	GCTGCTAC	GCTGCTAC	4535	GCTGCTAC	GCTGCTAC	5314
2902	GCTGCTAC	GCTGCTAC	GCTGCTAC	4536	GCTGCTAC	GCTGCTAC	5315
2909	AGGCTGAT	GCTGCTAC	GCTGCTAC	4537	GCTGCTAC	GCTGCTAC	5316
2915	GCTGCTAC	GCTGCTAC	GCTGCTAC	4538	GCTGCTAC	GCTGCTAC	5317
2921	AGGCTGAT	GCTGCTAC	GCTGCTAC	4539	GCTGCTAC	GCTGCTAC	5318
2925	GCTGCTAC	GCTGCTAC	GCTGCTAC	4540	GCTGCTAC	GCTGCTAC	5319



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2939	TTGAGGCT GGCTAGCTACAAAGG GAGAGTGG	2541	CCAGGCTC A AGGCTCAA	5320
2937	GGGCGGCT GACTATATACAAAG TGAAGGTG	2542	CAGCTTCA A AGGCGGG	5321
2940	GAAAGGCT GGCTAGCTACAAAG GGTTCAG	2543	CTTCACCC G GCGGCTTC	5322
2942	CTTGAAGC GGTATATTA AAGGA GCGGTTC	2544	CAAGCGGG G GCTGCAAG	5323
2951	GGGCAAGC GGCTAGCTACAAAG TTTGAAAG	2545	GCTTAAAT G GCTAGGAG	5324
2961	AGCATATC GGCTAGCTACAAAG TCTTCCCA	2546	TGTTAGGA A ACAGGGCG	5325
2963	CGACGCTT GGTATATTA AAGGA GTTCTTC	2547	GGAGGAC A AAGGCTCG	5326
2965	TGCGAGCT GGTATATTA AAGGA ATCTTCT	2548	AGGAAGAT G GCTAGGCA	5327
2967	TTTGAGAC GGCTAGCTACAAAG GCATGTC	2549	GAACAGCC G GCGGCAA	5328
2979	GAGTTTC GGCTAGCTACAAAG GAGTCTAT	2550	CATGAGCC G GCTAAATC	5329
2974	CAAAAGAT GGTATATTA AAGGA TTTTAAAG	2551	CGCGGCAA A ACUCUUG	5330
2984	GGAAGAC GGCTAGCTACAAAG CCGAAAGA	2552	UCUUUGG G GUCUUGG	5331
2989	TCAGGCGC GGCTAGCTACAAAG AAGAGCC	2553	GAAGAGAT G GCGGCTGA	5332
2992	ACTTCAGC GGCTAGCTACAAAG TGTAAAG	2554	GCTTGGG G GCTGAAG	5333
2998	TGTAACAT GGTATATTA AAGGA TTTTAAAG	2555	CGGCTGAA G GCTGACA	5334
3000	GCTGTGAC GGCTAGCTACAAAG ACTTCAG	2556	GTGAGAT G GUCACAG	5335
3003	CAAGTAT GGCTAGCTACAAAG GACACTTC	2557	GAAGCTC A ACAGCTCG	5336
3006	AAAGAGAC GGCTAGCTACAAAG TGTGACAC	2558	GCTGACA G GCTGCTT	5337
3010	CAAGAAAC GGCTAGCTACAAAG AATCTTC	2559	TAAAGGAT G GCTGCTG	5338
3018	CTGCAAT GGCTAGCTACAAAG TTAAGAC	2560	GUUCCTG A AATGCTG	5339
3022	TGACCTGC GGCTAGCTACAAAG AATCTTC	2561	CGGAGAT G GCTGCTG	5340
3026	CTGTTCAC GGCTAGCTACAAAG CTGCAAT	2562	ATTTGCT G GUGAACAG	5341
3030	GAGCTCT GGCTAGCTACAAAG TTAAGTTC	2563	GCAGGGA A AATCTTC	5342
3033	CTGAAAGC GGCTAGCTACAAAG TTTTAAAC	2564	GCTGACA G GCTGCTG	5343
3041	CACAGCTC GGCTAGCTACAAAG CTGAGGAC	2565	GCTGCTG A AGGCTTC	5344
3044	GTGAGAC GGCTAGCTACAAAG GTTCTGGA	2566	GCTGAGG G GCTGCTG	5345
3046	TGCTGAGC GGCTAGCTACAAAG AATCTTC	2567	TAAAGAT G GCTGCTG	5346
3048	GTTGCTTC GGTATATTA AAGGA AATCTTC	2568	GAAGGCT G GCTGCTG	5347
3050	ACTTCTCT GGCTAGCTACAAAG GCTGCTG	2569	GCTGCTG A AATCTTC	5348
3054	GTAAGATC GGCTAGCTACAAAG TGTGCTG	2570	GCTGCTG A AATCTTC	5349
3056	TTTATGAT GGCTAGCTACAAAG GTTCTGCT	2571	GCAGGAC A AATCTTC	5350

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3060	GATCTTGT GGTAGCTACAAAGA AGATGTTG	2572	CAACAUCU A ACAAGAUC	5351
3065	AGAGAGAT GGTAGCTACAAAGA CTGTGTAGA	2573	UUAACAG A AUCCUCCU	5352
3073	CTTGACAG GGTAGCTACAAAGA AGGAGGAT	2574	AUCCUCCU G GGTGCAGG	5353
3076	AGGCTTGC GGTAGCTACAAAGA ACCAGGAG	2575	CTCCUCCU G GCAGGCGU	5354
3080	CTGTACGC GGTAGCTACAAAGA CTGELAGCA	2576	GGTGGAG G GGGUACAG	5355
3082	AGTGTAT GGTAGCTACAAAGA GATGTATAG	2577	GTGCAGGC G GUACAGGU	5356
3084	AAACCTGT GGTAGCTACAAAGA ACGGCTGC	2578	GCAGGCG A ACAGGUUU	5357
3088	CGGSAAC GGTAGCTACAAAGA CTGTATGC	2579	GGTATAG G GUUACAG	5358
3093	ACATGGGT GGTAGCTACAAAGA GAAATCTG	2580	CAGGTTTC A AGGCAUGU	5359
3095	ACACATGC GGTAGCTACAAAGA GTGAAAAC	2581	GGTTCAC G GGAUGUGU	5360
3097	CCACACAT GGTAGCTACAAAGA GGTGAAAA	2582	UUUACAG A AATTTTGC	5361
3099	CAGCACAC GGTAGCTACAAAGA ATGCTGTGA	2583	UUAACAC G GGTGGCUG	5362
3101	TGAGGAC GGTAGCTACAAAGA ACATATGT	2584	ATGCAGGU G GGTGTGCA	5363
3103	GTGGAAG GGTAGCTACAAAGA ACATATGC	2585	GTATGUGU G GGTGCAGC	5364
3106	GGAGCTGC GGTAGCTACAAAGA AGCACACA	2586	GGTGGTGC G GCAGTTTC	5365
3109	ATGGAAG GGTAGCTACAAAGA TGTAGCAC	2587	GUUUGGA G GUUCCAU	5366
3115	GATGAAT GGTAGCTACAAAGA GGGAGCTG	2588	CAGCUCU A AUUUCAC	5367
3120	TTCCTGAT GGTAGCTACAAAGA GAAATGAG	2589	CCCAATTC A AUCAGCAA	5368
3124	AAACTTGC GGTAGCTACAAAGA TGATGAAA	2590	UUUACUA G GCAAGUUU	5369
3128	TTCGAAC GGTAGCTACAAAGA TGGCTGAT	2591	AUCAGCAA G GTTGGAA	5370
3138	TGTTGGGT GGTAGCTACAAAGA TTTTCAA	2592	UUGGAAGA A ACCCCACA	5371
3143	AAAAATGT GGTAGCTACAAAGA GGGTTCTT	2593	AGACCCU A ACAUUUUU	5372
3145	GGAAAAAT GGTAGCTACAAAGA GTGGGGTT	2594	AACCCAC A AUUUUCC	5373
3154	TGACCCGC GGTAGCTACAAAGA AGGAAAAA	2595	UUUUGUU G GGGGGACA	5374
3156	GATGACGC GGTAGCTACAAAGA GTAGGAAA	2596	UUUCCUGC G GGGUACUC	5375
3158	GATATGAC GGTAGCTACAAAGA GTAGAGGA	2597	UUUUGUC G GUUATTC	5376
3161	TGAGAGAT GGTAGCTACAAAGA GACGGGCA	2598	UGGGGUC A AUCUUGA	5377
3168	GGAGGTGT GGTAGCTACAAAGA CAGAGATG	2599	CAUCUUG A ACAGGGCC	5378
3170	GAGGCGGT GGTAGCTACAAAGA GTACAGAG	2600	UUCUUGA A AGGGCCUC	5379
3173	AGGAGAGC GGTAGCTACAAAGA CGTGTGAG	2601	CUGACAG G GCUUCCCU	5380
3183	GGAGTAGC GGTAGCTACAAAGA AGAGGGAG	2602	CUUCCUCU G GCUATCCC	5381

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3186	GATGGAGT GGTAGCTACAAAG AATAGAGG	2603	CTTTTGGT A ACCGCAAG	5382
3191	TTTCAGGAT GGTAGCTACAAAG GAGTAGAC	2604	GUACGCG A AUGGUGAA	5383
3200	TTTCTGGG GGTAGCTACAAAG TTTTAGGA	2605	UUTGAAA G GGTAGAA	5384
3207	CCCTGGGT GGTAGCTACAAAG TCTTAGCT	2606	AGCCAAGA A ACCGAGGG	5385
3209	ATCCCTGG GGTAGCTACAAAG GCTTTTGG	2607	CCAAAGAG G GCAGGGAAU	5386
3215	AGGAGCAT GGTAGCTACAAAG CCTTGGGT	2608	ACGCAGGG A AUGGCGCU	5387
3217	CCAGCCGAG GGTAGCTACAAAG ATTCTTAC	2609	GCATGTAAT G GTCGCTGG	5388
3220	CCUCCAGC GGTAGCTACAAAG GATATCCC	2610	GAAGATGTC G GCUGGGGG	5389
3227	CCCTTGGC GGTAGCTACAAAG CCUAGAGG	2611	CGCTGGGG G GCTAAGGG	5390
3234	GGGCTGGG GGTAGCTACAAAG CTCTGGCT	2612	GGGCAAGG G GCGCGCGC	5391
3236	CCGCGCGC GGTAGCTACAAAG GCTCTGGG	2613	CCAAAGGC G GCGGCGGG	5392
3239	GGGCTGGC GGTAGCTACAAAG GATATCTT	2614	AGGCTGAT G GTCGCTGG	5393
3243	CAGAGGGC GGTAGCTACAAAG CGGCTGGG	2615	CGCGCGCG G GCGGCGCG	5394
3250	CGGAGGGC GGTAGCTACAAAG AATATGGC	2616	GGCTTCTT G GCTTCTGG	5395
3260	TGCTACGG GGTAGCTACAAAG CCGGAGAG	2617	CCUCCGAG G GCGGCGCA	5396
3263	CATCTCAC GGTAGCTACAAAG GATATGAG	2618	CCGAGGTC G GTCGCTGG	5397
3265	CCGCTGGC GGTAGCTACAAAG ACCGCTCC	2619	GGGCGCGT G GCGGCGCG	5398
3269	ACAGCCAG GGTAGCTACAAAG GATATGGC	2620	GGCTTCTT G GCTTCTGG	5399
3271	GGGAGAGC GGTAGCTACAAAG CATCTCAC	2621	GGGCTGAG G GCTGAGCG	5400
3274	GCTATGAG GGTAGCTACAAAG AATATGAG	2622	CACTGGTC G GCTTCTGG	5401
3276	TTGCTGGC GGTAGCTACAAAG AATATCAC	2623	GGGCTGAG G GCGGCTGA	5402
3279	TGCTTGGT GGTAGCTACAAAG GGCAGAGC	2624	GCUGGCG A ACCAGGCA	5403
3284	AGGATATG GGTAGCTACAAAG TCTTGGCG	2625	GGGCTGAG G GCTTCTGG	5404
3286	CCAGGAGT GGTAGCTACAAAG GCTTGGGG	2626	CACTGAGC A AATCTGCG	5405
3292	CTTCTGAG GGTAGCTACAAAG AATATATC	2627	GGCTTCTT G GCTGAGTC	5406
3299	GATCTAGC GGTAGCTACAAAG TCTGAGAG	2628	CGGCTGAG G GCGGCTGG	5407
3302	TGCTGAGT GGTAGCTACAAAG GATATGAG	2629	GGGCTGAG A AATCTGAG	5408
3307	CAGCTGCT GGTAGCTACAAAG GATATGAG	2630	CTTCTGAG A AATCTGAG	5409
3309	GACAGGCT GGTAGCTACAAAG GTCGAGTC	2631	GATCTGAG A ACCGCTGG	5410
3312	GGTACAGC GGTAGCTACAAAG CTTCTGAG	2632	GGGCTGAG G GCGGCTGG	5411
3314	TAGCTGAG GGTAGCTACAAAG AATATGAG	2633	GATCTGAG G GCGGCTGG	5412

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3317	ACCTAGGT GGTAGCTACAAAG AAGACAGGT	2634	ATCGGAGC A ACCGAGG	5413
3321	TGGCAAGT GGTAGCTACAAAG AAGTACAA	2635	TGTCACCT A ACCGAGC	5414
3323	ACGCGGAC GGTAGCTACAAAG AAGTACAA	2636	UCACCAAC G GGTACAC	5415
3325	CGAGTGGT GGTAGCTACAAAG AAGTACAA	2637	ACCAAGCT G GGTACAC	5416
3329	CCAGGAGT GGTAGCTACAAAG AAGTACAA	2638	UACGAGCT A ACCGAGG	5417
3337	TGAGTGAC GGTAGCTACAAAG AAGTACAA	2639	GUCCGAGG G GGTACAC	5418
3340	TGCTGAGT GGTAGCTACAAAG AAGTACAA	2640	CTGGGGGC A ACCGAGG	5419
3347	TGAGTGTG GGTAGCTACAAAG AAGTACAA	2641	CACGAGG A ACCGAGC	5420
3350	GTCTGAGG GGTAGCTACAAAG AAGTACAA	2642	UCAGGACA G GGTACAC	5421
3356	AGTGGAGT GGTAGCTACAAAG AAGTACAA	2643	CGCTGAG A ACCGAGC	5422
3358	TGAGTGGT GGTAGCTACAAAG AAGTACAA	2644	GGCAGAC G GGTACAC	5423
3361	GACGAGG GGTAGCTACAAAG AAGTACAA	2645	CACAGCA G GGTACAC	5424
3364	CTTGGAGT GGTAGCTACAAAG AAGTACAA	2646	GCAGGCA G GGTACAC	5425
3372	CGGAGAGT GGTAGCTACAAAG AAGTACAA	2647	AGCGGAA G GGTACAC	5426
3383	AGCTGGT GGTAGCTACAAAG AAGTACAA	2648	CCCTGAG A ACCGAGC	5427
3386	GTAGGAGT GGTAGCTACAAAG AAGTACAA	2649	CGGAGG A ACCGAGC	5428
3388	CAGTGGT GGTAGCTACAAAG AAGTACAA	2650	CTAGGAC G GGTACAC	5429
3392	AGGAGAGT GGTAGCTACAAAG AAGTACAA	2651	CGAGGCT A ACCGAGC	5430
3395	TGAGGAGT GGTAGCTACAAAG AAGTACAA	2652	CTGAGC G GGTACAC	5431
3404	GTGAGAGT GGTAGCTACAAAG AAGTACAA	2653	CCCTGAG G GGTACAC	5432
3407	TTGAGAGT GGTAGCTACAAAG AAGTACAA	2654	UGGAGGCT G GGTACAC	5433
3410	CGGAGAGT GGTAGCTACAAAG AAGTACAA	2655	AGGAGGCT G GGTACAC	5434
3414	TGCGAGAGT GGTAGCTACAAAG AAGTACAA	2656	UGGAGCT A ACCGAGC	5435
3419	GGGAGAGT GGTAGCTACAAAG AAGTACAA	2657	CTAGGCT G GGTACAC	5436
3421	AGGAGAGT GGTAGCTACAAAG AAGTACAA	2658	AAGGAGCT A ACCGAGC	5437
3424	CTGAGAGT GGTAGCTACAAAG AAGTACAA	2659	CTAGGCT G GGTACAC	5438
3432	CTGAGAGT GGTAGCTACAAAG AAGTACAA	2660	GGGAGCT A ACCGAGC	5439
3440	AGGAGAGT GGTAGCTACAAAG AAGTACAA	2661	ACGAGCT A ACCGAGC	5440
3443	TGAGAGT GGTAGCTACAAAG AAGTACAA	2662	UGGAGCT A ACCGAGC	5441
3450	CGGAGAGT GGTAGCTACAAAG AAGTACAA	2663	CAGGAGCT A ACCGAGC	5442
3454	GTGAGAGT GGTAGCTACAAAG AAGTACAA	2664	CTGAGCT A ACCGAGC	5443

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3457	CGGCTGGC GGGTAGCTACAAAGG GATCGAGTC	2665	GAATGAGG G GGCACCGG	5444
3460	GGGCGGGT GGGTAGTACAAAGA GGGTAGTA	2666	GGAGAGGC A AGCGGCGC	5445
3464	CTGTGAGG GGGTAGTACAAAGA GGGTGGGCG	2667	GGCGATCC G GCGCACAG	5446
3468	CTGGCGGT GGGTAGCTACAAAGG GGGCGGGGT	2668	AGCGGCGC A AGAGCGAG	5447
3471	GGGCGGGC GGGTAGTACAAAGA GGGCGGGCG	2669	GGCGATCA G GCGAGGTC	5448
3476	CTCTCGGT GGGTAGCTACAAAGG CTGGCTGT	2670	AGAGCGAG G GCGGAGAG	5449
3483	CTCTCTGC GGGTAGCTACAAAGA CTCTCTCT	2671	GGCGAGTA G GCGAGCAC	5450
3487	GCTGGTGT GGGTAGTACAAAGA CTGCTCTC	2672	GAGAGGAG A AGCGCGC	5451
3489	CTGCTGGT GGGTAGCTACAAAGG CTCTCTCT	2673	GAAGAGAC A AGTAGTAG	5452
3492	AGGCGTGC GGGTAGCTACAAAGG TGGTCTCT	2674	AGACAGCA G GCGGCGCT	5453
3496	GACAGGGC GGGTAGCTACAAAGG GGGCGGGC	2675	TACAGAGCA G GCGGCGGC	5454
3501	GGCGTGGC GGGTAGCTACAAAGG AGGCTTAC	2676	GCAGCGCC G GGCACGCC	5455
3504	GGGCGGGT GGGTAGTACAAAGA GAGAGGGC	2677	GGCGGGCC A AGCGCGCG	5456
3506	AGCGCGGC GGGTAGCTACAAAGG GTGACAGG	2678	CGGCGTAT G GCGGGGCG	5457
3511	GGTAGAGC GGGTAGCTACAAAGG GGGCGGGG	2679	TACGCGCG G GCGCAGCG	5458
3516	TGGGAGGT GGGTAGCTACAAAGA AGAGCTCG	2680	CGGGCGCC A AGGCGCCA	5459
3519	CTTGGGAC GGGTAGCTACAAAGG GTGAGAGC	2681	GGTGGGAC G GCGGAGGG	5460
3535	TGGCGGGC GGGTAGCTACAAAGA GGGCGGGT	2682	AGGAGAGG G GCGGAGCA	5461
3538	GGTGGGGC GGGTAGCTACAAAGA GAGCGGGC	2683	GAGGAGGG G GCGGAGAC	5462
3542	CTGGGTGT GGGTAGCTACAAAGA GGGCGGGC	2684	GGCGGGCC A AGCGGAG	5463
3544	GCGTGGGT GGGTAGCTACAAAGG GTGAGGGG	2685	CGGCGGAC A AGCGAGGC	5464
3550	GTGGGGGG GGGTAGCTACAAAGA GTGGGGGT	2686	ACAGGAG G GCGCGGAC	5465
3554	AGCGGTGC GGGTAGCTACAAAGG GGGCGTGG	2687	CTAGGCGC G GCGGCTGT	5466
3556	CGAGCGGT GGGTAGCTACAAAGG GGGCGGGT	2688	AGGAGAGC A AGCGGGG	5467
3559	CTGCGAGC GGGTAGCTACAAAGG GGGCGGGG	2689	CTGGTACC G GCGGAGAG	5468
3566	CTTCAGAC GGGTAGCTACAAAGG TGGAGCGG	2690	CTAGAGGA G GCGTAGGG	5469
3573	AGTCAGGC GGGTAGCTACAAAGG CTGAGACT	2691	AGCTGAG G GCGTAGAG	5470
3579	AGACTTAC GGGTAGCTACAAAGG TCGAGGGT	2692	AGGCGTGA G GCGAGGCG	5471
3583	CTAAGAC GGGTAGCTACAAAGA TCAGTAGG	2693	CTGAGGGA G GUGUUGGG	5472
3585	GTCGAAAC GGGTAGCTACAAAGG ACTCACTC	2694	GAGGAGGT G GUGUUGGC	5473
3590	CTCTCTGT GGGTAGCTACAAAGG CAGAGACT	2695	AGGUGGUG G GCGGAGGC	5474

Table VI

3596	ATGCAAGG GGTAGTTTAAAGA GTAGGGA	2696	TGGGTAG G GCGGCAU	5475
3599	GTACATGC GGTAGTTTAAAGA AGGCTG	2697	TGAGGCU G GCAATTT	5476
3602	CTGACAT GGTAGTTTAAAGA GTAGGCT	2698	AGGCGCG A AUGGCGG	5477
3604	AGGCGAG GGTAGTTTAAAGA ATGCAAGG	2699	GAATGAAU G GTTAAAGU	5478
3609	CTTTCAGG GGTAGTTTAAAGA GTAGGCT	2700	TATGTTGG G GCGAAGG	5479
3616	CACTCAGG GGTAGTTTAAAGA GTTTCAGG	2701	GGTUGAAG G GTTTCAGG	5480
3621	CTGACAG GGTAGTTTAAAGA TTAGGCT	2702	AAGGCTGA G GTTTCAGG	5481
3623	AGGCGAG GGTAGTTTAAAGA ATGCAAGG	2703	GTATGAGU G GCGGCGU	5482
3628	GGTCAAG GGTAGTTTAAAGA GTAGGCT	2704	ATGTTGG G GCGAAGG	5483
3634	GTACAGG GGTAGTTTAAAGA GTTTCAGG	2705	CGGCGAG G GTTTCAGG	5484
3640	ATGCTAG GGTAGTTTAAAGA TTAGGCT	2706	AGGTTGA G GCGAGGU	5485
3644	CTGACAG GGTAGTTTAAAGA TTAGGCT	2707	CTGATGA G GUGGCGG	5486
3646	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2708	GAGCGAG G GTTTCAGG	5487
3651	CTGTCAG GGTAGTTTAAAGA GTAGGCT	2709	AGGTTGA G GCGAAGG	5488
3658	CACTCAG GGTAGTTTAAAGA GTTTCAGG	2710	AGGCAAG G GCGAGGU	5489
3663	CTGACAG GGTAGTTTAAAGA TTAGGCT	2711	AAGGCTGA G GTTTCAGG	5490
3665	TGTCAGG GGTAGTTTAAAGA ATGCTAG	2712	GAATGAGU G GCGAAGG	5491
3670	AGGTCAG GGTAGTTTAAAGA GTTTCAGG	2713	AGGTTGA G GCGAAGG	5492
3672	GTAGGCT GGTAGTTTAAAGA GTTTCAGG	2714	TGTCAGG A ATGCTAG	5493
3674	GTGTCAG GGTAGTTTAAAGA GTTTCAGG	2715	GTATGAGU G GCGGCGU	5494
3678	AGGTCAG GGTAGTTTAAAGA ATGCTAG	2716	GTATGAGU G GCGGCGU	5495
3681	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2717	GTATGAGU G GCGGCGU	5496
3687	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2718	GTGTCAG A ATGCTAG	5497
3695	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2719	GTGTCAG A ATGCTAG	5498
3699	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2720	GTGTCAG A ATGCTAG	5499
3703	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2721	GTGTCAG A ATGCTAG	5500
3705	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2722	GTGTCAG A ATGCTAG	5501
3710	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2723	GTGTCAG A ATGCTAG	5502
3715	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2724	GTGTCAG A ATGCTAG	5503
3723	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2725	GTGTCAG A ATGCTAG	5504
3727	GTGTCAG GGTAGTTTAAAGA ATGCTAG	2726	GTGTCAG A ATGCTAG	5505

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3737	CTGAGGAGT GGTAGCTACAAAGG AAGGAAAG	2727	UUUUUUU A ACGAGGAG	5506
3744	ACGCGGCGC GGTAGCTACAAAGG AAGGAAAG	2728	CAAGGAGA G GCGGAGCU	5507
3749	GTGGAAGC GGTAGCTACAAAGG AAGGAAAG	2729	AGAGGCGG G GCUUCCAC	5508
3755	TGGGAGGT GGTAGCTACAAAGG AAGGAAAG	2730	CGGCUUUU A ACGGAGA	5509
3762	TGUAAGGT GGTAGCTACAAAGG AAGGAAAG	2731	CACUCCCG A ACAGGAG	5510
3764	ATTGATAT GGTAGCTACAAAGG AAGGAAAG	2732	UUUUUAG A AUAGGAU	5511
3770	TGAGATAT GGTAGCTACAAAGG AAGGAAAG	2733	ACAAGGA A AUAGGCA	5512
3773	GAAGGAC GGTAGCTACAAAGG AAGGAAAG	2734	UAGGAUA G GUCAUCC	5513
3777	CTGGGAT GGTAGCTACAAAGG AAGGAAAG	2735	AUAGGUC A AUCCGAG	5514
3785	TGGGGAAT GGTAGCTACAAAGG AAGGAAAG	2736	AUCCGAG A AUCCGCA	5515
3789	ACAAAGGC GGTAGCTACAAAGG AAGGAAAG	2737	CCAGATTC G GCCAUUG	5516
3792	TGAGCAAT GGTAGCTACAAAGG AAGGAAAG	2738	GAUUAUU A AUUGUCA	5517
3795	GGGTGAAC GGTAGCTACAAAGG AAGGAAAG	2739	UUGGCAUU G GUUCAGC	5518
3799	CGAGGAGT GGTAGCTACAAAGG AAGGAAAG	2740	CAUAGUC A ACCGUGG	5519
3806	GGGAGGAT GGTAGCTACAAAGG AAGGAAAG	2741	CAUAGUC G GCGGAGC	5520
3811	AGGAGGAC GGTAGCTACAAAGG AAGGAAAG	2742	GUUGGAGG G GCGGAGC	5521
3821	TGAGGAGC GGTAGCTACAAAGG AAGGAAAG	2743	GUUGGAGG G GCGGAGC	5522
3829	GTGAGGAT GGTAGCTACAAAGG AAGGAAAG	2744	UGGCUUUC A ACCGATC	5523
3834	TGAGGAGT GGTAGCTACAAAGG AAGGAAAG	2745	CAUAGGAT A ACCAUGA	5524
3837	AUUGGAT GGTAGCTACAAAGG AAGGAAAG	2746	CCCCCAG A AUCCAGG	5525
3843	GTGAGGAT GGTAGCTACAAAGG AAGGAAAG	2747	CAUAGGAT G GUGGAGC	5526
3849	CTGAGGAT GGTAGCTACAAAGG AAGGAAAG	2748	AGGAGGAG A ACCGAGC	5527
3861	CGAGGAGT GGTAGCTACAAAGG AAGGAAAG	2749	UAGGAGG A ACCGAGG	5528
3870	CGAGGAGT GGTAGCTACAAAGG AAGGAAAG	2750	CAUAGGAT G GUGGAGC	5529
3879	CTGAGGAT GGTAGCTACAAAGG AAGGAAAG	2751	GUUGGAG A AUUGGAG	5530
3886	TGAGGAT GGTAGCTACAAAGG AAGGAAAG	2752	AUUGGAG G GUGAGCA	5531
3889	GUAGGAT GGTAGCTACAAAGG AAGGAAAG	2753	UAGGAGG A ACCAAGG	5532
3894	GGGAGGAT GGTAGCTACAAAGG AAGGAAAG	2754	CAUAGGAT G GUGGAGC	5533
3898	CAAGGAT GGTAGCTACAAAGG AAGGAAAG	2755	CAUAGGAT G GUGGAGC	5534
3900	TAGAGGAT GGTAGCTACAAAGG AAGGAAAG	2756	AAAGGAG G GCGGAGC	5535
3905	CTGAGGAT GGTAGCTACAAAGG AAGGAAAG	2757	UGGCGGAT G GUACAGC	5536

Table VI

3907	GUCTGTCGT	GGCTAGCTACAAAGGA	ACAGGAGGA	2758	TTGCTGCGG	A	ACACAGGC	5537
3909	TGCGCTGT	GGCTAGCTACAAAGGA	GTACAGGG	2759	CCCTGAC	A	ACAGGCGA	5538
3913	GTCTCTGC	GGCTAGCTACAAAGGA	CTGTGTAC	2760	GUACACAG	G	GGAGGAC	5539
3919	TGCAGCGT	GGCTAGCTACAAAGGA	CTGTGCTT	2761	AGGCGAGG	A	ATCTTGCA	5540
3924	CCAGGTCG	GGCTAGCTACAAAGGA	AGGCTTCT	2762	AGGACCTT	G	GCACCTGG	5541
3926	ATTCAGGT	GGCTAGCTACAAAGGA	GTAGGCTC	2763	GACCTTGC	A	ACCTGGAU	5542
3932	ACCCGCTT	GGCTAGCTACAAAGGA	CTAGGCTC	2764	GCCTTTCG	A	AUGGCGGU	5543
3939	ACAGGCGC	GGCTAGCTACAAAGGA	CTCTCTCT	2765	GGATGCGG	G	GTCTCGGU	5544
3944	TGAGGCTT	GGCTAGCTACAAAGGA	AGGAGCTT	2766	GGGCTCTC	G	GUGGCUCA	5545
3948	AATTTGAC	GGCTAGCTACAAAGGA	CTACAAAG	2767	CTCTTTCG	G	GUCAAAAU	5546
3953	CCCTGCTT	GGCTAGCTACAAAGGA	TTTACUUA	2768	UGGCTCTAA	A	AUUGGCGG	5547
3964	CACAGGCT	GGCTAGCTACAAAGGA	CTCTCTCT	2769	GGGCGGAG	G	GTGCGGUG	5548
3966	CCCTAGGC	GGCTAGCTACAAAGGA	AGCTCTCT	2770	GGGAGAGG	G	GTGCTTCG	5549
3969	ACTCTGAC	GGCTAGCTACAAAGGA	ATGAGCTT	2771	TAGGCGGT	G	GTGCTTCG	5550
3975	TATTTTAC	GGCTAGCTACAAAGGA	TCTACAG	2772	CTGUGGGA	G	GUAAAADA	5551
3980	TTGAGTAT	GGCTAGCTACAAAGGA	TTTATCT	2773	GGAGUAAA	A	AGACUGAA	5552
3982	TATTCAGT	GGCTAGCTACAAAGGA	ATTTTACT	2774	AGUAAAUA	A	ACUGAAUA	5553
3987	TGATATAT	GGCTAGCTACAAAGGA	TGAGTATT	2775	AAUACUGA	A	AUAUAGUA	5554
3989	ATCTATAT	GGCTAGCTACAAAGGA	ATTCAGTA	2776	UACUGAAU	A	AAUAGAGU	5555
3991	AACTTCAT	GGCTAGCTACAAAGGA	ATATTCAG	2777	CUGAAUAU	A	AUGAGUUU	5556
3995	TGAAAAAC	GGCTAGCTACAAAGGA	TGATATAT	2778	AUAUAGUA	G	GUUUUCCA	5557
4003	TTCAAAAAC	GGCTAGCTACAAAGGA	TGAAAAAC	2779	GUUUUCCA	G	GUUUUCCA	5558

Seq I = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp), Nakamura *et al.*, Science 277 (5328), 955-959 (1997)  
 Cut Site = R/Y (Purine/Pyrimidine)

Stem Length = 8. Core Sequence = GGCTAGCTACAAAGGA



Table VII: Anti-TERT HH and G-Cleaver Ribozymes

Alias	Ribozyme Sequence	Seq ID Number	Length (nt)
<b>HH</b>			
TEPT-1051	AGGAGUA CUGAUGAGGCCGUAAGGCCGAA AGGAAGU	5559	36
TERT-1053	UGAGGAG CUGAUGAGGCCGUAAGGCCGAA AGAGGAA	5560	36
TERT-1918	UGAAGCG CUGAUGAGGCCGUAAGGCCGAA AGUCUGG	5561	36
TEPT-2383	GAGCCAC CUGAUGAGGCCGUAAGGCCGAA AACUGUC	5562	36
TEPT-2485	UGAAGCG CUGAUGAGGCCGUAAGGCCGAA AGGAAGA	5563	36
TEPT-2566	GCGUGGA CUGAUGAGGCCGUAAGGCCGAA AGGAUGG	5564	36
TEPT-3181	AGJAGCA CUGAUGAGGCCGUAAGGCCGAA AGGGAGG	5565	36
TEPT-3691	CJGUGGG CUGAUGAGGCCGUAAGGCCGAA AAGUGAA	5566	36
TEPT-3758	AUGUGGG CUGAUGAGGCCGUAAGGCCGAA AGUGGAA	5567	36
TEPT-3794	GGJGAAC CUGAUGAGGCCGUAAGGCCGAA AUGGCGA	5568	36
<b>G-Cleaver</b>			
TERT-757	UJGGG UGAUGGCAUGCACUAUGCGCG AACGGCAGAC	4332	36
TEPT-2353	UCJGU UGAUGGCAUGCACUAUGCGCG AAGGUAGAGA	4471	36
TEPT-3795	GUGAA UGAUGGCAUGCACUAUGCGCG AAUGGCGAAU	4594	36